SN5748 W2130/97

OCT 10 .. 97

In Reply Refer To: MS 5232

Mr. Norm L. Winter Tennessee Gas Pipeline Company Post Office Box 2511 Houston, Texas 77252-2511

Dear Mr. Winter:

Your letter dated July 21, 1997, requests approval to relinquish in its entirety Right-of-Way Grant OCS-G 4291, associated with the following pipeline:

Pipeline Segment No.	Size (inches)	Length (feet)		From	To
5748 (Right-of-Way	16 OCS-G 429	1,609	Gas	Platform A Block 498 West Cameron Area Lease OCS-G 3520	A 30-inch SSTI Block 498 West Cameron Area Lease OCS-G 3520
				Ecase Cos-G 3320	Segment No. 5632

Pursuant to 30 CFR 250.150(b), the relinquishment of the right-of-way grant is hereby accepted effected July 30, 1997. Pursuant to 30 CFR 250.4(b), approval is hereby granted to abandon this pipeline, and in accordance with 30 CFR 250.159(c), the requirment that the pipeline be removed is hereby waived.

In the future, should it be determined that this abandoned pipeline constitutes a hazard to navigation or commercial fishing operations or unduly interferes with the other uses of the Outer Continental Shelf, Tennessee Gas Pipeline Company shall be required to remove it.

Sincerely,

(orig. sgd.) A. P. Alvarado

Donald C. Howard Regional Supervisor Field Operations

bcc: 1502-01 Segment No. 5748, ROW OCS-G 4291 (MS 5232) 1502-01 ROW OCS-G 4291 (Microfilm) (MS 5033)

MS 5421

MS 5232 (Carto)

LMonahan: amm: 9/4/97: Tennesse. 748

10/2×197



July 21, 1997

U.S. Department of the Interior Minerals Management Service Gulf of Mexico OCS Region 1201 Elmwood Park Boulevard New Orleans, LA 70123-2394 Attention: Alex Alvarado

> Re: Permanent Abandonment and Relinquishment of Pipeline Right of Way, OCS-G 4291, Seg. No. 5748, West Cameron Block 498-A Line

Dear Alex:

In accordance with Title 30 CFR Part 250, Subpart J, 250.156 and 250.164, Tennessee Gas Pipeline Company hereby requests approval to permanently abandon and relinquish approximately 0.30 miles of sixteen inch (16") pipeline in the West Cameron Area, Offshore Louisiana.

The temporary cessation of the above pipeline was approved on April 7, 1997. Tennessee Gas Pipeline Company hereby requests approval to relinquish the pipeline right of way associated with this abandonment in its entirety. TGP is requesting this permanent abandonment and relinquishment based on the fact that there is no future use for this pipeline. This line was abandoned as proposed in June 1997.

Please forward all documentation to K. J. Cheramie at Sugar Mill Point, 1115 Regal Row, Houma, LA 70360, (504)868-6785, ext. 217.

Sincerely,

Norm L. Winter

Agent and Attorney-in-Fact

NLW/KJC:kjc

cc: M. Handley

P. Craft

P. Alexis

L. Rosales

File

510 5748

WQ 4/1/97

APR 0 7 1997

In Reply Refer To: MS 5232

Mr. C. M. Billings Tennessee Gas Pipeline Company Sugar Mill Point, 1115 Regal Row Houma, Louisiana 70360

Dear Mr. Billings:

Your letter dated March 17, 1997, requests approval for the modification of pipeline Right-of-Way OCS-G 4291, to allow for the temporary cessation of operation of the associated 16-inch pipeline, described as follows:

	Pipeline Segment No.	Size (inches)	Length (feet)	Service	From	<u>To</u>
	5748 (Right-of-Way	16 OCS-G 4291	1,609	Gas	Platform A Block 498	A 30-inch SSTI Block 498
_					West Cameron Area Lease OCS-G 3520	West Cameron Area Lease OCS-G 3520 Segment No. 5632

Pursuant to the authority granted by 30 CFR 250.150(b), your request is hereby approved with the following conditions:

- 1. The annual rental required by 30 CFR 250.159(c)(2) shall continue to be due and payable in December of each calendar year.
- 2. Tennessee Gas Pipeline Company, upon receipt of the necessary documentations which are required by the Federal Energy Regulatory Commission under Tennessee Gas Pipeline Company's blanket abandonment authorization, shall file an application to permanently abandon the subject pipeline and relinquish the right of way.

Additionally, your letter requests approval to cut, plug, and bury the ends of the pipeline 3 feet. Pursuant to 30 CFR 250.150(b), your request is hereby approved.

Sincerely,

(orig. sgd.) A. P. Alvarado

Donald C. Howard Regional Supervisor Field Operations

bcc: /1502-01 Segment No. 5748, ROW OCS-G 4291 (MS 5232) T502-01 ROW OCS-G 4291 (Microfilm) (MS 5033) MS 5232 Carto w/plat

LMonahan: amm: 4/1/97: Tennesse. 748

410197



March 17, 1997

U.S. Department of the Interior Minerals Management Service Gulf of Mexico OCS Region 1201 Elmwood Park Boulevard New Orleans, LA 70123-2394

Attention: Alex Alvarado



Re: Temporary abandonment of 16" natural gas pipeline, West Cameron Block 498-A Line, OCS-G 4291, Seg. No. 5748

Dear Alex:

In accordance with Title 30 CFR Part 250, Subpart J, 250.156, Tennessee Gas Pipeline Company hereby requests approval to temporarily abandon the above referenced pipeline in the West Cameron Area, Gulf of Mexico, Offshore Louisiana.

This pipeline extends from Coastal's West Cameron Block 498-A platform to a sub-sea tie-in with Tennessee Gas Pipeline Company's existing 30" pipeline in West Cameron Block 498. The procedure which will be used to abandon this facility is attached hereto.

Upon receipt of the necessary documentation, i.e., P & A reports, etc., which are required by FERC under TGP's blanket abandonment authorization, TGP will file to permanently abandon the above pipeline.

The line will be purged with seawater to remove any materials which might be harmful to the environment prior to abandonment.

Also, enclosed are three copies of Drawings which have been red-marked to show the proposed work, along with a copy of Coastal's letter requesting removal of the pipeline facilities.

If you should require any additional information regarding this matter, please call this office.

Sincerely,

B. J. Chaney, Supervisor Rights of Way as Agent and Attorney-in-Fact

BJC/KJC:kjc

Enclosures

cc: M. O'Bryan

- P. Craft
- L. Rosales
- P. Alexis
- D. McCarter

File

<u>ABANDONMENT PROCEDURE</u> WEST CAMERON 498-A

1. Locate, uncover and close sub sea valve 823X-2501 in West Cameron block 498. Open 2" bypass valves.

X = 1,315,467

Y = (-)65,154

- 2. Install 16" poly pig in pig trap at Coastal Oil and Gas W.C. 498A platform.
- 3. Launch and run pig with high pressure water. (1,796 ft. of 16" OD x .375" WT Pipe = 17,035 gallons)
- 4. When pig reaches closed sub sea valve 823X-2501 pressure will spike. Close 2" bypass valves.
- 5. Bleed water pressure from line at W.C. 498 platform.
- 6. Unbolt flanges at station 0+16 (as shown on drawings).
- 7. Jet pipeline in upstream direction approx. 40 ft. to station 0+56. Cut pipeline at 0+56 and remove 40 ft. section with flange.
- 8. Install 16" foreman plug in end of pipeline to be abandoned. Ensure pipeline has 3 Ft. cover.
- 9. Install 16" blind flange at station 0+16 on flange previously unbolted in step 6.
- 10. At West Cameron 498A platform, cut 16" pipeline at base of riser at station 16+57 and remove ell (water depth 152 ft.). Remove ell to surface vessel.
- 11. Install 16" foreman plug in end of pipeline to be abandoned. Bury end to a minimum 3 ft. cover.
- 12. Cut pipeline riser at working point elevation (+) 16 ft.



March 12, 1997

Tennessee Gas Pipeline Company Sugar Mill Point 1115 Regal Row Houma, Louisiana 70360

Attention: Paul Craft

No.Re: West Cameron 498 Platform Abandonment, TGP's 16" Line

823 X-2500.

This letter serves as our notification of Coastal Oil & Gas Corporation's desire to proceed with abandonment operations of the above referenced platform. In addition to well and platform plug and abandonment operations, Coastal requests that Tennessee Gas Pipeline proceed with developing plans and implementing abandonment operations on TGP's 16" pipeline associated with this platform.

Per our telephone conversations, Coastal requests abandonment activities occur by May 1997 as we have a pending pipeline, construction and drilling activities planned for this area. As we discussed, Coastal plans to lay an 8" or 10" gas pipeline from our proposed 'B' platform to tie in to the current 16" side tap.

Coastal's project engineer is Mr. Larry DeSpain who can be reached at the following address and telephone number:

Coastal Oil & Gas Corporation

Nine Greenway Plaza, Ste. 2540 Houston, Texas 77046 (713) 877-7577

If you have any questions or need further information, please contact me at (713) 877-6189.

Sincerely,

C. M. Billings
Manager Constanction/Production

CC:

R. Cuttsinger

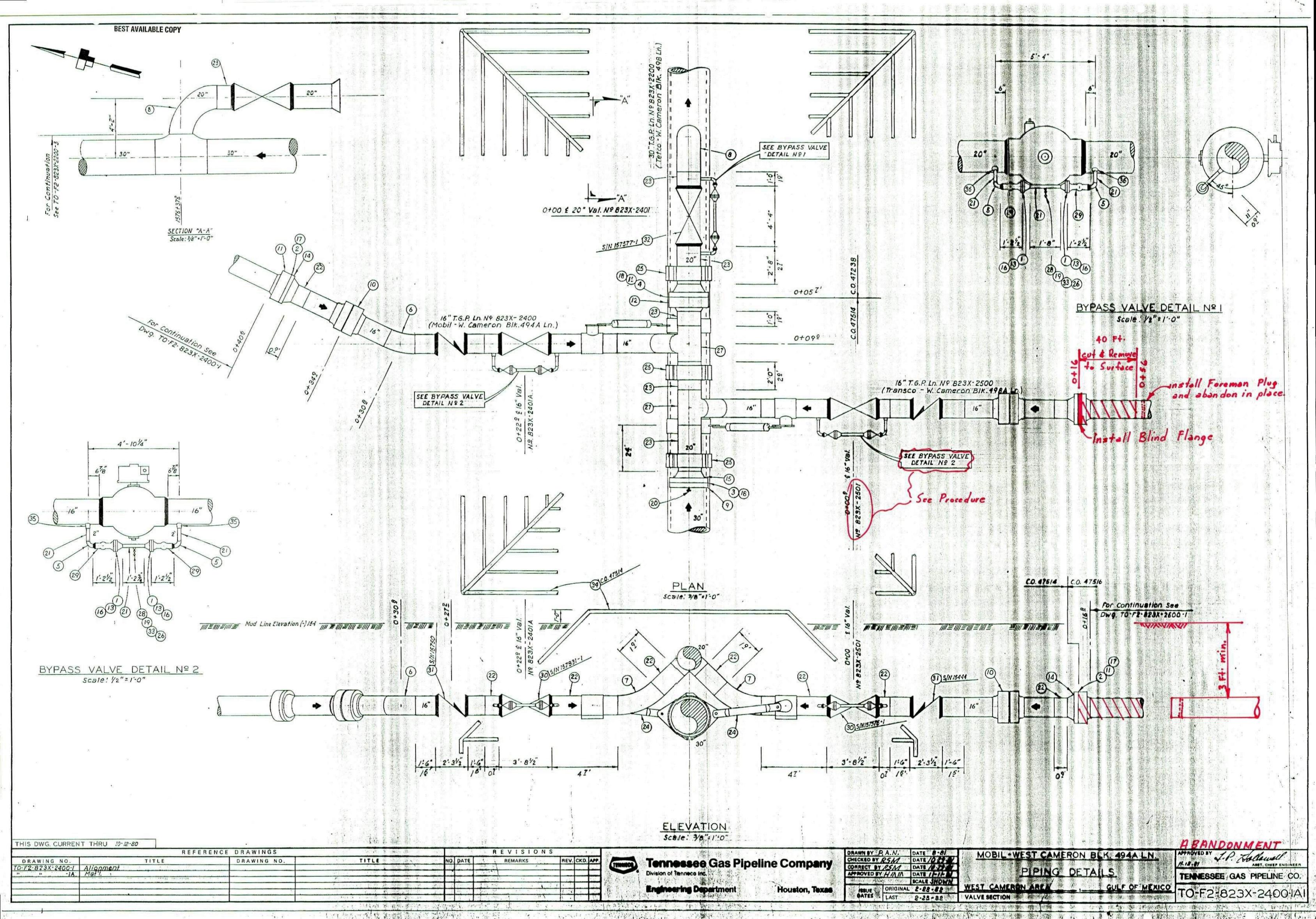
L. DeSpain

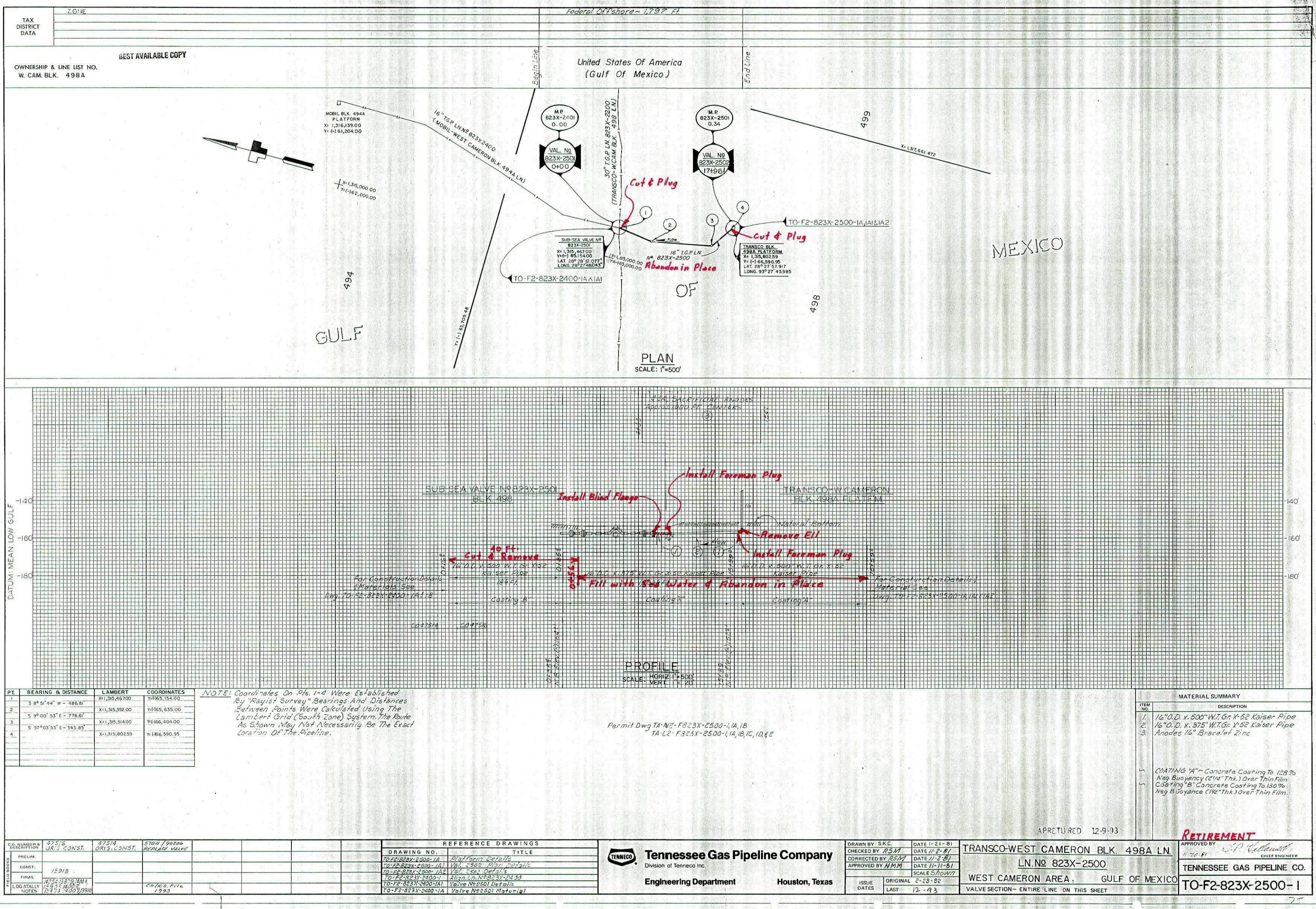
C.M. 15 elm

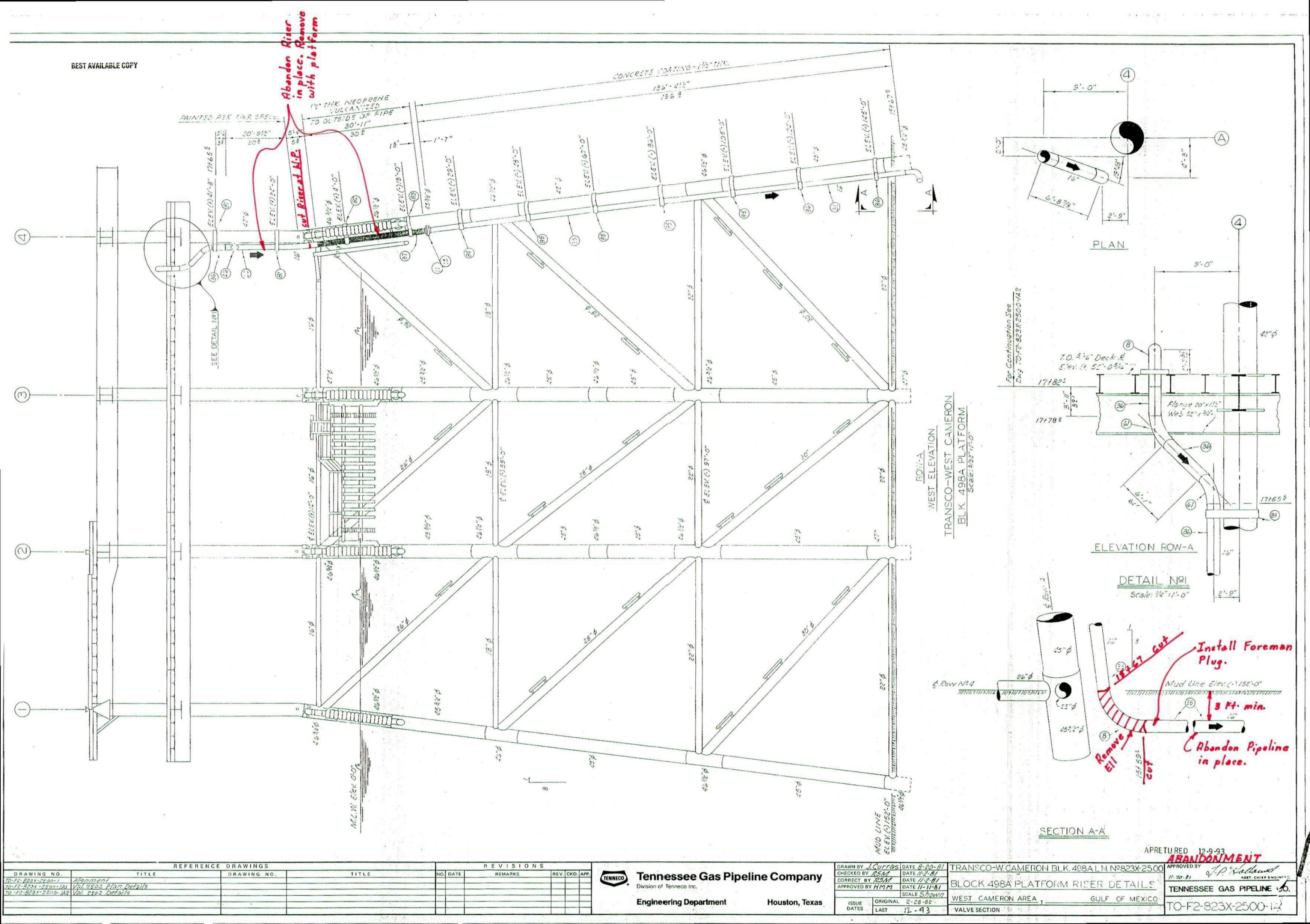
M. Desmond

D. Nelson

J. Talley











United States Department of the Interior

REST AVAILABLE COPY

MINERALS MANAGEMENT SERVICE GULF OF MEXICO OCS REGION 1201 ELMWOOD PARK BOULEVARD NEW ORLEANS, LOUISIANA 70123-2394



SN5748

In Reply Refer To: LE-3-1

N. O. Misc. No. 014

November 30, 1989

ACTION

Tennessee Gas Pipeline Company

Right-of-Way

B4291

MERGER AND CHANGE OF NAME RECOGNIZED

On October 17, 1989, there was filed in this office for approval evidence of merger of Tenneco Merger Company, an unqualified corporation, with and into Tenneco Inc., a Delaware corporation (N. O. Misc. No. 014), and, as of the date of the merger, Tenneco Inc. changed its name to Tennessee Gas Pipeline Company. The effective date of the merger and simultaneous change of name is December 8, 1987. The name of the surviving corporation is Tennessee Gas Pipeline Company and the qualification number assigned thereto is New Orleans Miscellaneous File Number 014.

In connection with the merger and change of name, the following evidence was received:

- 1. Agreement and Plan of Merger of Tenneco Merger Company with and into Tenneco Inc. under the name of Tennessee Gas Pipeline Company, duly certified by the Secretary of State of the State of Delaware on December 8, 1987, with additional certification by James Gaughan, Assistant Secretary of Tennessee Gas Pipeline Company, on June 7, 1989;
- Certificate reflecting that Tennessee Gas Pipeline Company is duly incorporated under the laws of the State of Delaware and is in good standing, executed by the Secretary of State of the State of Delaware, on November 3, 1988;
- 3. Certificate reflecting that Tennesseee Gas Pipeline Company is incorporated under the laws of the State of Delaware and that it is authorized to hold pipeline rights of way and mineral leases on the Outer Continental Shelf, duly executed by Vincent F. Ewell, Jr., Assistant Secretary of Tennessee Gas Pipeline Company, on June 7, 1989;

Ja5748

- 4. Certificate listing the elected or appointed and now acting officers of Tennessee Gas Pipeline Company, duly executed by James Gaughan, Assistant Secretary of Tennessee Gas Pipeline Company, on June 7, 1989;
- 5. Copy of resolutions adopted at a meeting of the Board of Directors of Tennessee Gas Pipeline Company held on May 9, 1989, duly certified by James Gaughan, Assistant Secretary of Tennessee Gas Pipeline Company, on June 1, 1989;
- 6. Bond Rider to be attached to Outer Continental Shelf Right of Way Bond Number 61 S 33110-15-79 BCA changing the name of the principal to Tennessee Gas Pipeline Company, effective December 8, 1987;
- 7. Listing of the pipeline rights-of-way to be affected by the merger and change of name.

Since the transfer and vesting of property rights in the surviving corporation have been effected by State statutes by operation of law and not by individual conveyances, the merger and change of name are hereby approved insofar as they affect pipeline rights-of-way under 30 CFR 250. The change in ownership as to the pipeline rights-of-way listed below is recognized and the records so noted:

OCS-G NO.	OCS-G NO.	OCS-G NO.	OCS-G NO.	OCS-G NO.
0643	1345	1692	1854	2121-E
0643-A	1376	1702	1854-A	2123
0643-B	1382	1702-B	1854-B	2214
0643-C	1382-A	1702-C	1854-C	2214-A
0643-D	1383	1702-D	1854-E	2975
0649	1434	1702-E	1854-F	2975-A
0875	1434-A	1702-F	1854-G	3221
0877	1434-G	1702-H	1854-H	3221-A
0885	1434-H	1702-I	1854-I	3348
0886	1434-J	1702-K	1907 - W	3349
0887	1434-K	1702-L	1950-J	3350
0887-A	1461	1702-M	1950-L	3355
0889	1464	1702-0	1992	3357
0891	1464-A	1702-P	2121	3358
0891-A	1683	1702-Q	2121 - A	3360
0892	1684	1702-R	2121-B	3437
0895	1687 - S	1702-S	2121-C	3449
1320	1687-T	1702-T	2121-D	3451

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Page 3

N. O. Misc. No. 014

| OCS-G NO. |
|-----------|-----------|-----------|-----------|-----------|
| 3455 | 4028 | 4290 | 4855 | 7109 |
| 3613 | 4030 | 4291 | 4977 | 7535 |
| 3614 | 4040 | 4306 | 5135 | 7536 |
| 3626 | 4043 | 4308 | 5136 | 7552 |
| 3633 | 4061 | 4309 | 5137 | 7554 |
| 3638 | 4150 | 4340 | 5141 | 7575 |
| 3644 | 4154 | 4341 | 5152 | 7576 |
| 3648 | 4158 | 4373 | 5157 | 7587 |
| 3652 | 4160 | 4374 | 5232 | 8046 |
| 3828 | 4161 | 4526 | 5253 | 8047 |
| 3837 | 4169 | 4603 | 5259 | 8050 |
| 3845 | 4171 | 4605 | 5933 | 8056 |
| 3848 | 4173 | 4608 | 5937 | 8057 |
| 3851 | 4276 | 4609 | 6381 | 8527 |
| 3852 | 4282 | 4613 | 6546 | 8617 |
| 3855 | 4283 | 4641 | 7096 | 10396 |
| 3861 | 4284 | 4644 | 7104 | 11165 |
| 3862 | 4287 | 4686 | 7107 | 11174 |
| | | | | |

J. Rogers Pearcy Regional Director

cc: Associates

Case Files

Qualification File (N. O. Misc. No. 014)

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ON 5745

In Reply Refer To: F0-2-2 OCS-G 4291

OCT 0 8 1986

ACTION

Tenneco Inc.

Pipe Line Right-of-Way

2

Date of Permit: 5-6-80

9

Decision Requesting Proof of

Construction Dated: 4-18-86

2

Proof of Construction

Received: 8-25-86

Proof of Construction Accepted

The above-captioned grantee has submitted the evidence required by the law and Regulations 30 CFR 256.95(a). The proof of construction is hereby accepted and approved. Deviation from the original plat has been noted and new plat made a part of the record.

Because grantee has deviated from the approved right-of-way by \pm 125 feet in Block 498, West Cameron Area, South Addition, Tenneco Inc. must notify TXP Operating Company, operator of Lease OCS-G 3520, to that effect. A return-receipt-card or letter from TXP Operating Company evidencing proof of notice must be submitted to this office within 60 days of receipt hereof.

The total length of the "as-built" pipeline right-of-way is 0.30 miles.

(Orig. Sqd.) J. Rogers Pearcy

J. Rogers Pearcy Regional Director

CERTIFIED MAIL NO. PO12892084

P/L OCS-G 4291 (F0-2-2)

K. Faust (w/attachments) (F0-2-2)

ORD Reading File

OPS-5 (w/copy of location plat)

L. Boehm (LE-3-1)

our 10/8/80

CWITTEMS: mcs:10/01/86:LEXITYPE Disk 5

BEST AVAILABLE COPY

In Reply Refer To: F0-2-2

OCS-G 4291

OCT 0 8 1986

Williams 10-2-86 Keely, o/6/86 Starffe 10/6/81 ognes 197

ACTION

Tenneco Inc.

Pipe Line Right-of-Way

:

Date of Permit: 5-6-80

:

Decision Requesting Proof of Construction Dated: 4-18-86

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The total length of the "as-built" pipeline right-of-way is 0.30 miles.

(Orig. Sgd.) J. Rogers Pearcy

J. Rogers Pearcy Regional Director

CERTIFIED MAIL NO. P012692084

bcc: P/L OCS-G 4291 (F0-2-2)

K. Faust (w/attachments) (F0-2-2)

ORD Reading File

OPS-5 (w/copy of location plat)

L. Boehm (LE-3-1)

CWilliams:mcs:10/01/86:LEXITYPE Disk 5

Tennessee Gas Pipeline

Division of Tenneco Inc.

Terrebonne Bank Tower Suite 514 720 East Main Street Houma, Louisiana 70360 (504) 868-6785



August 22, 1986

U. S. Department of the Interior Minerals Management Service Gulf of Mexico OCS Region 1420 South Clearview Parkway New Orleans, LA 70123

Attention: J. Rogers Pearcy

Regional Director



Re: Proof of Construction
Pipeline Right of Way

OCS-G 4291

West Cameron Block 498-A Line

Dear Sir:

On May 6, 1980, application for a pipeline right of way was approved and permit issued for the construction, maintenance and operation of a sixteen inch (16") natural gas pipeline in the West Cameron Area, Gulf of Mexico, Offshore Louisiana.

In accordance with regulations 30 CFR 256.95 (a) and appropriate guidelines, we attach herewith in triplicate, the "As-Built" Drawing No. TO-F2-823X-2500-1, along with three (3) copies of the hydrostatic test data.

If there is any additional information needed pertaining to this matter, please call this office.

Sincerely,

K. J. Cheramie

Right of Way Agent

KJC: vdm

Enclosures

cc: J. A. Viator

K. A. Thibodeaux

File

7	C. Williams Lease	No. 4291 FU-2-2	-
PS Form 3811, July 1983 447-845	Put your address in the "RET reverse side. Failure to do this being returned to you. The re you the name of the person didelivery. For additional fees to available. Consult postmaster for service(s) requested. 1. A Show to whom, date at 2. Restricted Delivery.	URN TO" space on the swill prevent this card from turn receipt fee will provide elivered to and the date of he following services are for fees and check box(es)	
845	3. Article Addressed to: Tenneco Inc. Attention: Mr. I 720 East Main Str Houma, Louisiana	reet, Suite 514	
	4. Type of Service: Registered Insured Certified COD Express Mail	Article Number 012692084	
	Always obtain signature of ad DATE DELIVERED.	dressee or agent and	
DOMESTI	5. Signature – Addressee X Vicke Mart 6. Signature – Agent X	in	
DOMESTIC RETURN RECE	7. Date of Delivery 8. Addressee's Address (ONL)	Y if requested and fee paid)	
-			

FO-2-2 P D12 L92 D84 RECEIPT FOR CERTIFIED MAIL

NO INSURANCE COVERAGE PROVIDED NOT FOR INTERNATIONAL MAIL

(See Reverse)

* U.S.G.P.O. 1984-446-014	sent to Tenneco Inc. Attention: Mr. Kurt Street and No. 720 East Main St, Su						
1.0.	P.O., State and ZIP Code Houma, Louisiana 70360						
J.S.G.P	Postage	\$					
*	Certified Fee						
	Special Delivery Fee						
	Restricted Delivery Fee						
	Return Receipt Showing to whom and Date Delivered						
1982	Return receipt showing to whom, Date, and Address of Delivery						
Feb.	TOTAL Postage and Fees	\$					
Form 3800,	Postmark or Date						
Form	G-42	291					
PS							

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OTE: SEE PROCEDURE	S TGT 6-129 FC	LINE NO.	IONS	SPREAD	SECTION		DATE
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NOMINAL PIPE:	812E 0.0.	w.t. ,625	GRADE X-52	MFR. 4/55			
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3250 PSIG PSIG						?,	•
Brown & Root				Keith L			
COMPANY PERSONNEL INVOLV J. DYCSSback	/ED	leek6					······································
test medium (water, gas, Watey	AIR, OTHER)						
	END C	1	PRESSURE POINT	HIGH ELEVAT	ION I	LOW	END OF TEST SECTION
MAP PLUS			NA	MA	,	NA	NA
ELEVATION (FEET)	N/A		NA	MA	,	NA	MA
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(OBSERVED AT PRESSURE PT	FINAL DEVIA	TION:	PRESSURE	PSIG		% s.m.y.s.	DEVIATION
FAILURE	DATE	TIME	A.M. MAP STATION	ELEVATIO	ON	FAILURE PRESS	~
DATA (OBSERVED AT FAILURE PT)	DESCRIPTION (A	TTACH SKETCH	оя Риото)	REPAIRS MADE (U	SE BACK IF NEEDED		
ALL TIE-IN WELDS WERE METHOD:	NONDESTRUCTIVI	ELY TESTED					BY
ELEVATION DATA DERIVED F	ROM PROFILE SH	ET TE-			OR U.S.G.S.	QUAD SHEET	
TEST REJECTED					TEST A	CCEPTED	DATE
NOTE: SEE ABOVE FAILURE	DATA			TEST INSPECTOR SIGNATURE: DISTRICT	AS	Blef	elle 9-30-80
SIGNATURE:				SIGNATURE: DIVISION SIGNATURE:	ino D.	The D	12.17.86
				AGENCY			

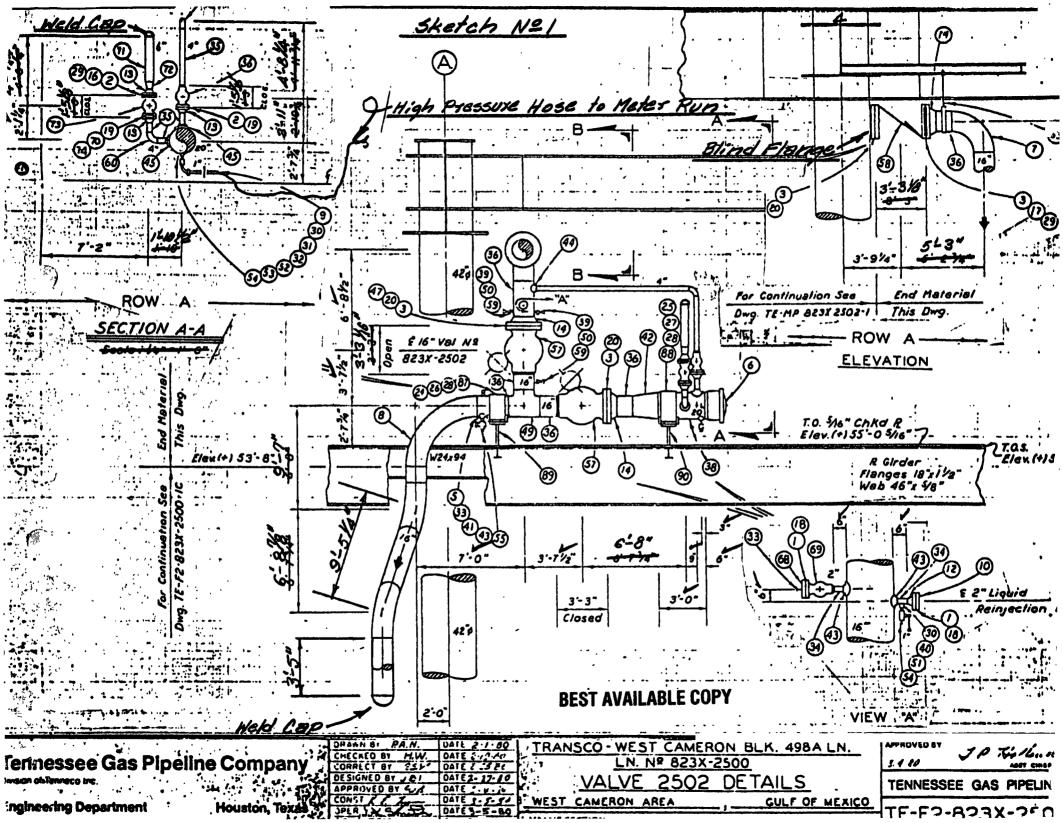
AGENCY SIGNATURE:

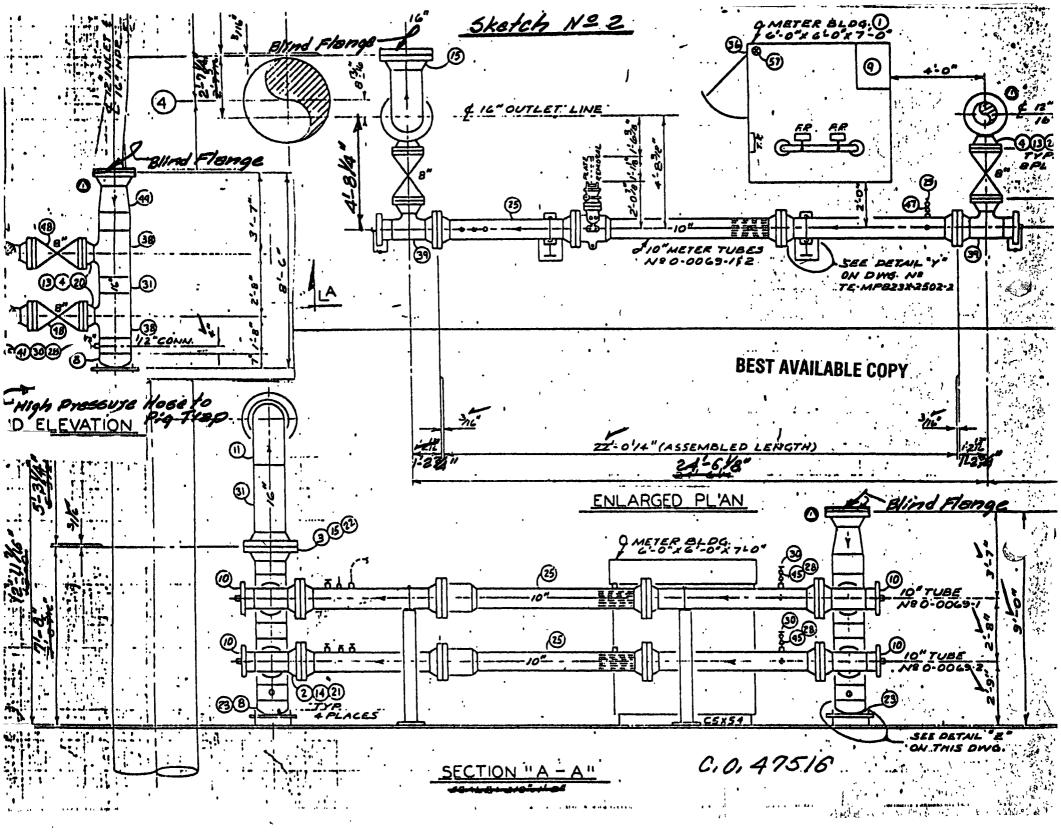
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" 4:30 " 2/67 8/° 73° " 4:38 " 2/63 8/° 73° Repressure to 2/75 " 4:45 " 2/7/ 8/° 73° " 5:00 " 2/65 8/° 74° Repressure to 2/75	7	AIRE N		810	730	1 2176
" 4:38 " 2/63 8/° 73° Repressure to 2/75 " 4:45 " 2/7/ 8/° 73° " 5:00 " 2/65 8/° 74° Portly (1)		1130 W		810	230	
" 4:45 " 2:171 81° 73° " " Si00 " 2:65 81° 74° Partly UI " 5:105 " 2:64 81° 74° Off Tast	"	1'28 N	2163	810	730	RADVECCIONO to 2175
" 5:00 " 2:65 8!° 74° Pastly Ol		1115 "			730	represent to exis
" 51/5 " 2164 8/° 74° 044 Tast 18119 Cu				910	710	Could March
		2,00	2161	910	710	Of the Tart

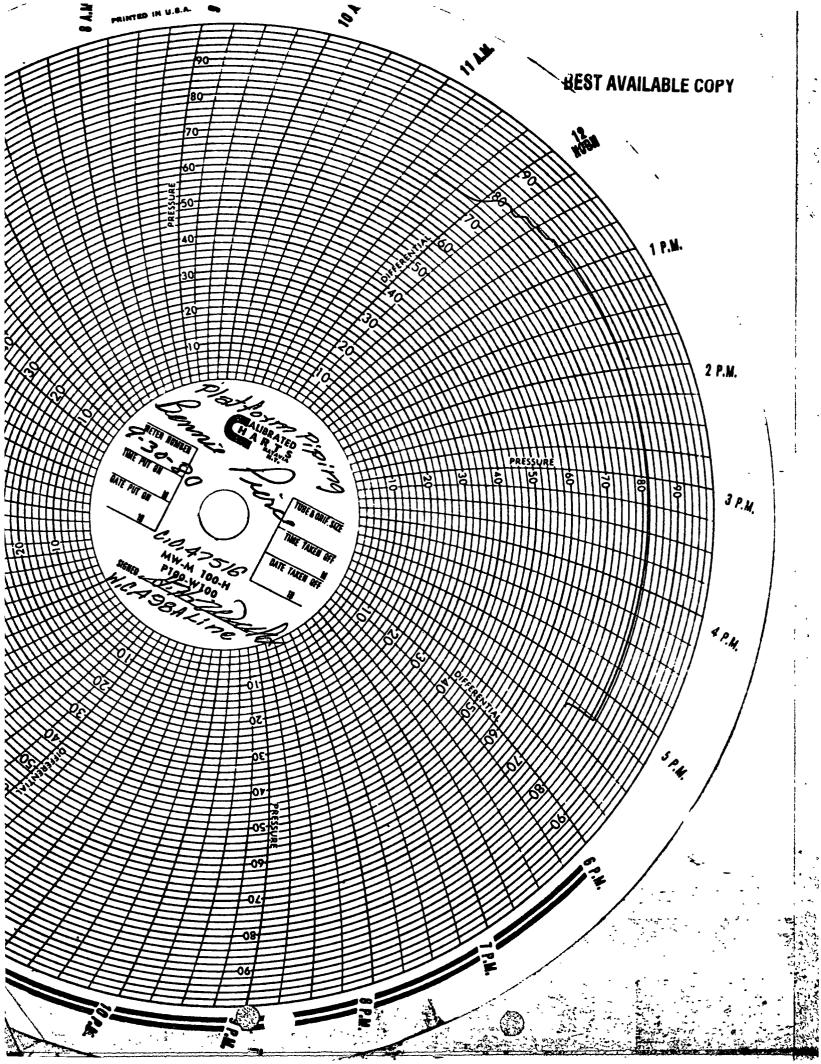
COMMENTS:

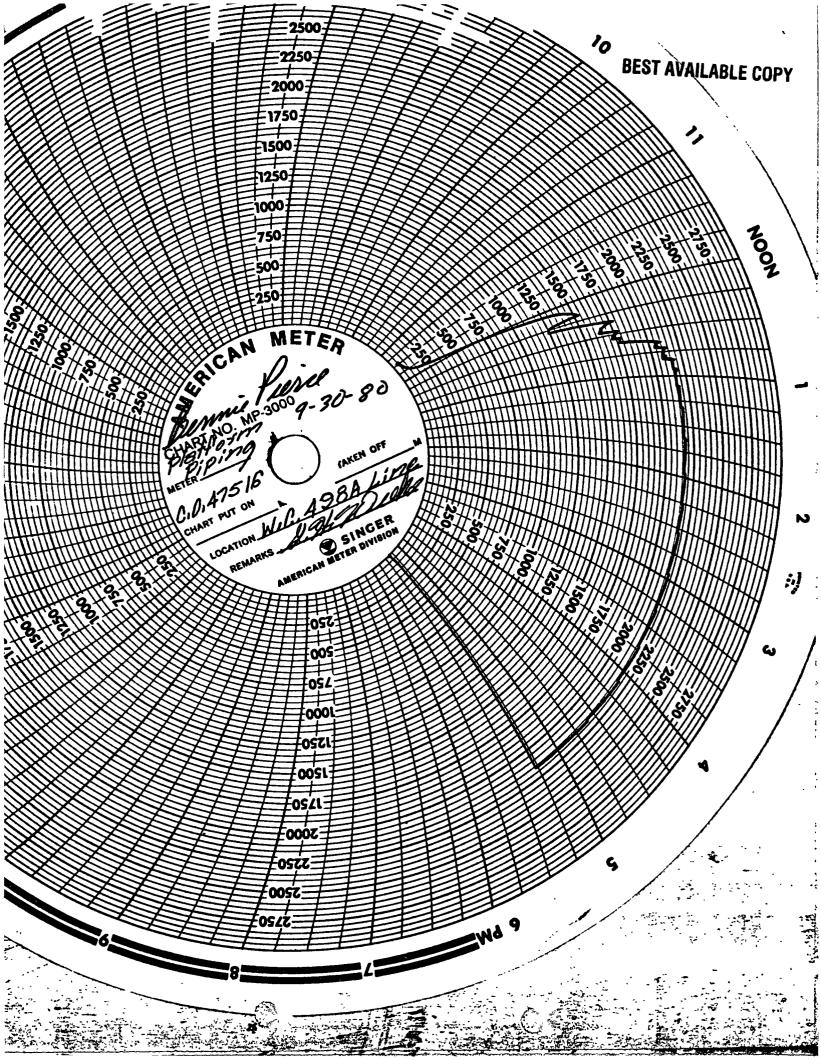
Temperature Chart - Barton 265A-2032 Rossure Chart - Barton ZAZA-1628 Dead Weight - 4731

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Tennessee	(COMPANY)	<i>j</i>	823x - 24	الدر الدر	PIPE LINE T
TE: SEE PROCEDURE	S TGT 6-129 FOR INSTR	UCTIONS	BEUX CY	70	
C.O. NO. 47238	DISTRICT LINE NO.	2200	BIR M228	SECTION	DATE
47514 47516	823 823x -	2400	BIR M228	2	11-30-80
Drawing no. 2200 - 1 TGF2-829%- 2400 - 1		-	SECTION TESTED	skotchio sta.	FOOTAGE See Sket
2500-		TO MLY	FROM STA.	3/8/4/10 STA.	See Stere
NOMINAL PIPE:	30 m60		U.S. 3	3 .	
100% S.M.Y.S. PRESSURE	M.A.O.P.	J 111 JJ	PIPELINE CONTRACTO	R , _	
2400	PSIG	PSIG	Brown	& Root inc	?.
HYDROSTATIC TEST CONTRAC		.1.			
	Hydrotæst, 1.	<i>NC</i> .	L.D. Los	wry	
L. B. Slowif	5				
TEST MEDIUM (WATER, GAS,					
Water					
	END OF	PRESSURE	нібн	LOW	END OF
	TEST SECTION	POINT	ELEVATION	ELEVATION	TEST SECTION
	BZ3X-2201 30.7	Drax-7CO1	0-0	0.2	
MAP PLUS	023x-2201 30.7	DEX 200.2	8231-2501	0.29 B23x-2201 3	6.7 823X- 2201
ELEVATION (FEET)	0	+57	+57		
TEST PRESSURE (PSI)	2186	2161	2161	2186	2186
67	0,07	0.0	0.07		9,01
% s.m.y.s	91%	90%	90% 5 MOBIL-		91%
1 a R28 X - 250	307 m/es 10"0.D. X. 600 WT.	*	ne: 823x.	200 CO 97230	3 20
Line 823X-2500 Co. 47576	F > 14	(MLV 823A	.2501	<00 Co -	· 4, 4.
_	313		<i>230</i> ,	97230	الم الم
2	1542.2 X.52				~~~
TRANSCO-WK 498 L	1961 11 4 .	0 0.	110 1	111 -	_ ~
Platform Riser	Note:	Pressure Poil	1 3 Mecorder	s located on Th	PANGEO-NK 498 PJ
USEFUL CONVERSION .	1 FOOT OF WATER = .433 P	SI WATER SOURCE	MILE	POST	WATER SOURCE TEMPER
FACTORS:	1 PSI = 2.31 FEET OF WATE	PRESSURE	Mexico		70°
DEVIATION	INITIAL DEVIATION:		PSIG	% s.m.y.s	
DATA (OBSERVED AT PRESSURE PT		PRESSURE			DEVIATION
	FINAL DEVIATION:		PSIG	% s.m.y.s	<u>. </u>
	DATE TIME	A.M. MAP STATION	ELEVATION	FAILURE PR	
FAILURE Data	DESCRIPTION (1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-	P.M.	I province water trans		SIG % S.M.
(OBSERVED AT FAILURE PT)	DESCRIPTION (ATTACH SKE	TCH OR PHOTO)	REPAIRS MADE (USE	BACK IF NEEDED!	
ALL TIE-IN WELDS WER	I E NONDESTRUCTIVELY TESTED)	<u> </u>		BY
METHOD:			<u> </u>		
ELEVATION DATA DERIVED	FROM PROFILE SHEET TE-			OR U.S.G.S. QUAD SHEET:	
	TEST REJECTED			TEST ACCEPTED	DATE
··········			TEST INSPECTOR (202 111	A
NOTE: SEE ABOVE FAILURE			SIGNATURE:	() How	1) 11:30-
	BEST AVAILA	BLE COPY	SIGNATURE:	D. Clutry	12/12/
SIGNATURE:			SIGNATURE:	of y Vallet	12.12.1
			AGENCY		

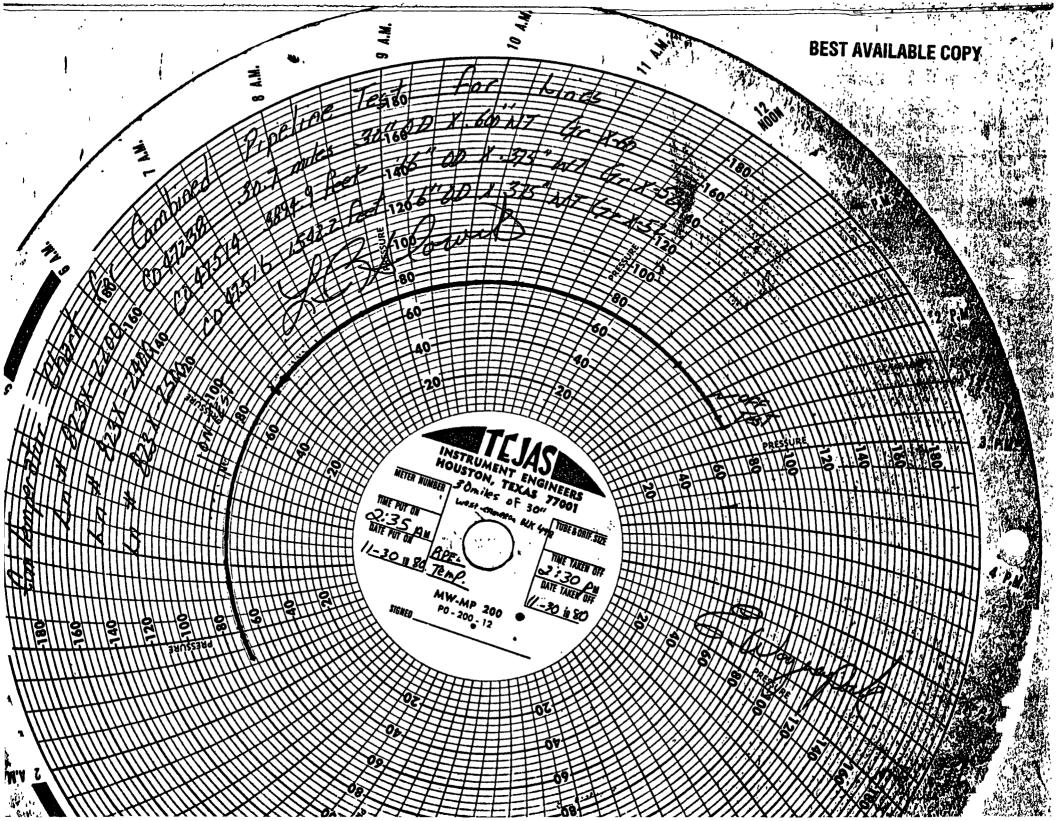
TGT	4207	3/80

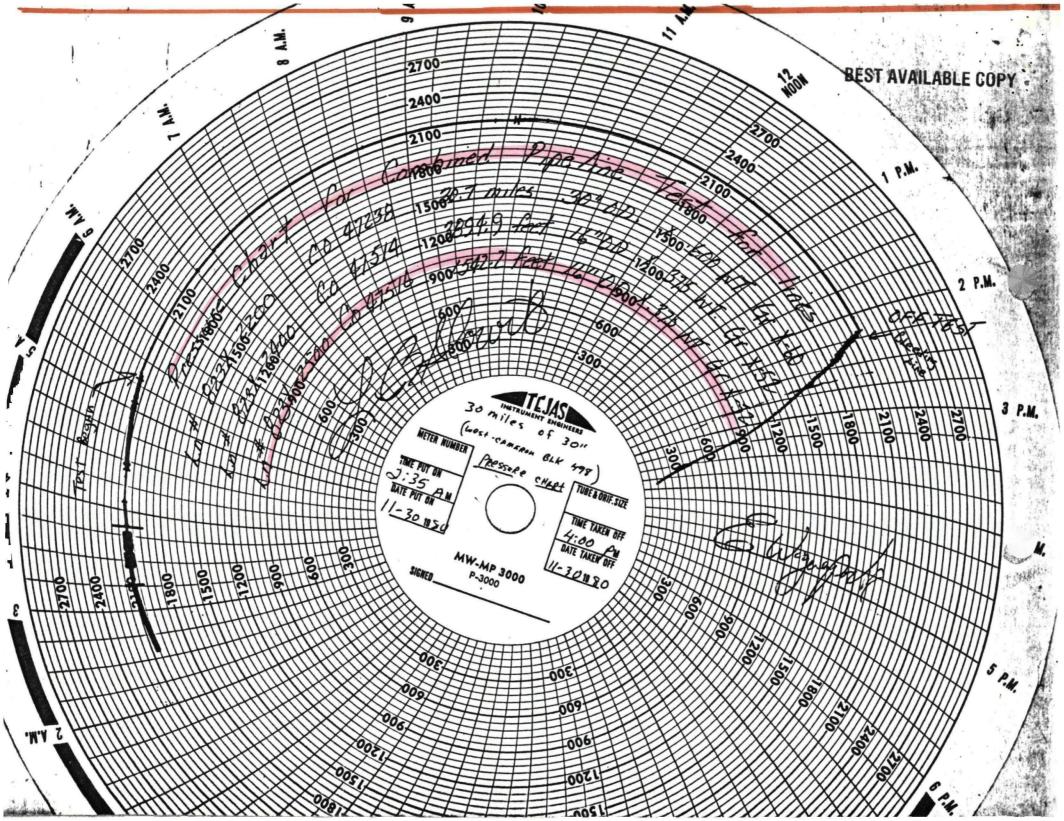
		0510	TEMPER	ATURE	I ON TEST, WEATHER, BLEED OFF, OFF TESTA
DATE	TIME	DEAD WEIGHT	TEST WATER	AMBIENT	REMARKS: ON TEST, WEATHER, BLEED OFF, OFF TEST.
11:30-80	0520	2175	70 °F	67 °F	Begin Test
11:00-60	05.35	2175	111	- "	Jegra 7 RS/
	0550		"	,,	
		2179	7100	68°F	
	0600	2178	1	- 	
	0615	2/72	,,	"	
	0690	2/7/		••	
	0093	2170	"		
	0700	2170	1		· · · · · · · · · · · · · · · · · · ·
	0715	2/69	,, '	3 1	
	0790	2168	7,	<i>p</i> 1	
	0000	2/67			
	0830	2/66		69° F	
	0900	2165		69-7	
	0930	2163	''		
	1000	2161		<i>"</i>	0
	1015	2174	 "		Bepressine 2161+217
	1030	2173	 ''		
	1100	2172	· · · · · · · · · · · · · · · · · · ·		
	1130	2/7/_	''	,,	
	1200	2170	"	•	
	1230	2/68	· · · · ·		
	1300	<u> 7167 </u>	"	68°	
	1330	2/67_	//	••	
	1400	2165	"		OFF TEST Breed down
11-30-80	1600		_		Breed down
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			1		
···	<u> </u>	· · · · · · · · · · · · · · · · · · ·	 	·· · · · · · · · · · · · · · · · ·	

COMMENTS:

Dead Weight (-0-3000 Psi) Ser# 2085
Pressure Becorder (0-3000Psi) Standard # PR-LL-014
Temperature Becorder (0-200°) Barton # 242A-4249

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TANFSSEE GAS PIPELINE (COMPANY)

SHEET	IL COE.
311661	

E: SEE PROCEDURE TGT 6-129

SHEET	L	<u> </u>	
1/15/	81		83

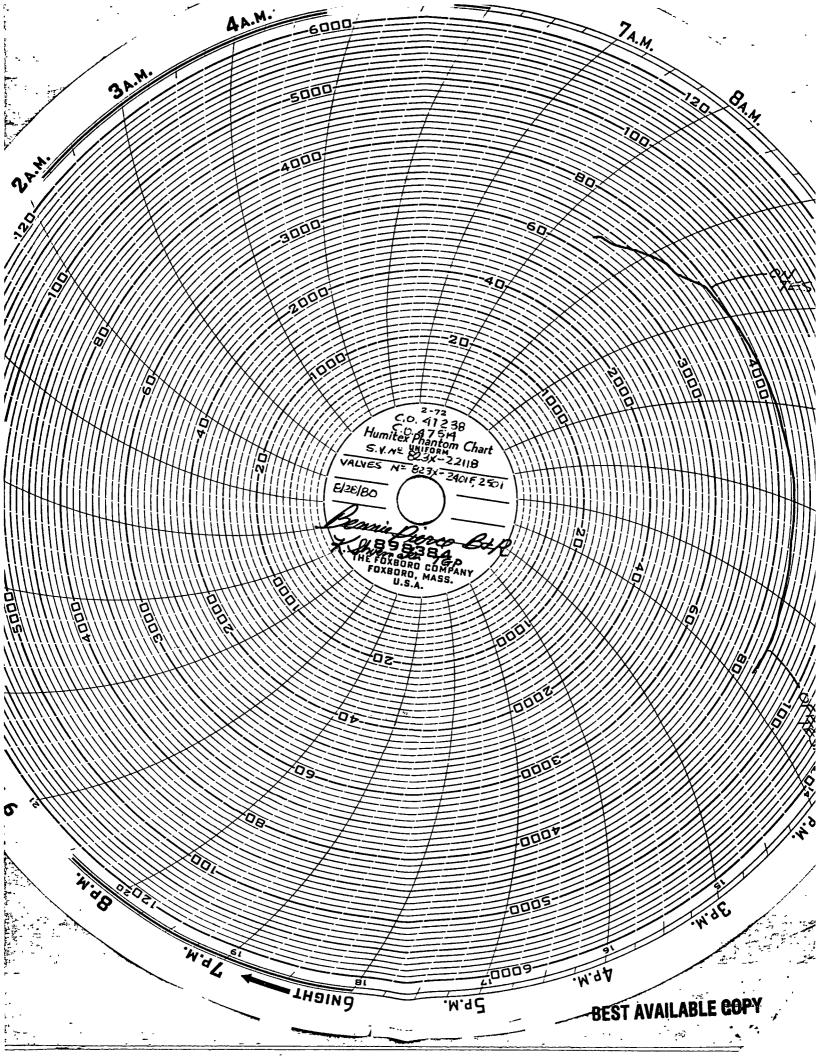
	is		PIPE TEST				
47238 \$ 47514	B23	LINE NO. 823 X	2400	SPREAD FAB. TES T	SECTION	DA Ć	0/28/80
DRAWING NO	LOCAT	ION		SECTION TESTED			FOOTAGE
TE-F2-823x-2200 TE-F2-823x-2400-	IB FROM	MLV	TO MLY	FROM STA.		TO STA. 0+30	
NOMINAL PIPE: 16"	SIZE O.D.	W.T. .500 .375	GRADE IN. X-52	MFR.	· · · · · · · · · · · · · · · · · · ·		
100% 5,M.Y.S. PRESSURE 2417(.375 M.T.	100% S.M.Y.S. PRESSURE M.A.O.P.			BROWN EN			
~ 1. ~ \ GRX-52	~ ' ~ (GRX-\$2 /			PROJECT MANAGER			
BROWN & ROOT, INC.				KLITH	LAFLEUR		
COMPANY PERSONNEL INVOLVED KEITH C. SHOEMAKER							
TEST MEDIUM (WATER, GAS, AIR, OTHER) WATER							
	END TEST SEC		PRESSURE POINT	HIGH ELEVATIO	ON (LOW ELEVATION	END OF TEST SECTION
MAP PLUS							
ELEVATION (FEET)	K-FI	48.	YARD	TES	STED		->
TEST PRESSURE (PSI)	2162	·	2162	2162	2	162	2162
% s.m.y.s	8916	3	29,63	89,63	8	9,63	29,63
TEST SKETCH (ATTACHA	ADDITIONAL SKET	CH SHEET IF	HECESSARY)			TEST SEC	TION NO
## 16" 16" 3:73% 16" 3:73% 16" 3:73% 16" 3:73% 16" 3:73% 16" 3:73% 16"							
	FLANGE 16"0		Tec 1	VALVE	NATE BALL F		'6~ w.ī. > ´ 2 -
HEEFIN CONVENION		· D x •500" (Tec >	VALVE V/ ← 10"0.0. x 500" w.)	GR x-52-	GR X-52	-
USEFUL CONVERSION .	1 FOOT OF WAT 1 PSI = 2.31 F	O X .500" (FRX: 52 WATER SOURCE	VÄLVE V ← 16"0.0. x 500" w. MILE	NATE BALL F	GR X-52	-
USEFUL CONVERSION • FACTORS: • DEVIATION DATA	1 FOOT OF WAT 1 PSI = 2.31 F	O X .500" (ER = .433 PS EET OF WATE	FRX-52 WATER SOURCE TAP PRESSURE	VÄLVE V ← 16"0.0. x 500" w. MILE	POST	% s.m.y.s.	water source temperature
USEFUL CONVERSION • FACTORS: • DEVIATION	1 FOOT OF WAT 1 PSI = 2.31 F INITIAL DEV	O K .500" (TER = .433 PSI EET OF WATEI	FRX: 52 WATER SOURCE	SALVE VI ✓ IC*O.O. X 500" MILE F/A PSIG	POST	% s.m.y.s.	WATER SOURCE TEMPERATURE 79 &
USEFUL CONVERSION • FACTORS: • DEVIATION DATA	1 FOOT OF WAT 1 PSI = 2.31 F INITIAL DEV	O K .500" (TER = .433 PSI EET OF WATER VIATION:	FRX: 52 WATER SOURCE TAP PRESSURE	PSIG	POST ID. YARU.	% S.M.Y.S.	WATER SOURCE TEMPERATURE 79 OF TEMPERATURE DEVIATION PSI
USEFUL CONVERSION • FACTORS: • DEVIATION DATA	1 FOOT OF WAT 1 PSI = 2.31 F INITIAL DEV	O K .500" (TER = .433 PSI EET OF WATEI	FRX-52 WATER SOURCE TAP PRESSURE	SALVE VI ✓ IC*O.O. X 500" MILE F/A PSIG	POST ID. YARU.	% S.M.Y.S. % S.M.Y.S.	WATER SOURCE TEMPERATURE 79 ? DEVIATION PSI
USEFUL CONVERSION • FACTORS: • DEVIATION DATA (OBSERVED AT PRESSURE PT)	1 FOOT OF WAT 1 PSI = 2.31 F INITIAL DEV	O x .500" (ER = .433 PSI EET OF WATEI //ATION: ATION: TIME	FRX-52 WATER SOURCE TAP PRESSURE PRESSURE A.M. MAP STATION P.M.	PSIG	POST ID. YARU.	% S.M.Y.S. % S.M.Y.S. FAILURE PRESSU	WATER SOURCE TEMPERATURE 79 OF TEMPERATURE DEVIATION PSI
USEFUL CONVERSION FACTORS: DEVIATION DATA (OBSERVED AT PRESSURE PT) FAILURE DATA (OBSERVED AT FAILURE PT) V ALL TIE-IN WELDS WERE	1 FOOT OF WAT 1 PSI = 2.31 F INITIAL DEVI DATE DESCRIPTION (ER = .433 PSI EET OF WATEI VIATION: ATION: TIME ATTACH SKET	FRX-52 WATER SOURCE TAP PRESSURE PRESSURE A.M. MAP STATION P.M.	PSIG PSIG	POST ID. YARU.	% S.M.Y.S. % S.M.Y.S. FAILURE PRESSU	WATER SOURCE TEMPERATURE 79 ? DEVIATION PSI
USEFUL CONVERSION FACTORS: DEVIATION DATA (OBSERVED AT PRESSURE PT) FAILURE DATA (OBSERVED AT FAILURE PT) VALL TIE-IN WELDS WERE METHOD: GAMMA	1 FOOT OF WAT 1 PSI = 2.31 F INITIAL DEVI DATE DESCRIPTION (NONDESTRUCTIVE)	O X .500" (ER = .433 PSI EET OF WATEI //ATION: ATION: TIME ATTACH SKET	FRX-52 WATER SOURCE TAP PRESSURE PRESSURE A.M. MAP STATION P.M.	PSIG PSIG	POST BACK IF NEEDED	% S.M.Y.S. % S.M.Y.S. FAILURE PRESSU PSIG	WATER SOURCE TEMPERATURE 79 7 SEVIATION PSI PRE % S.M.Y.S.
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USEFUL CONVERSION FACTORS: DEVIATION DATA (OBSERVED AT PRESSURE PT) FAILURE DATA (OBSERVED AT FAILURE PT) VALL TIE-IN WELDS WERE METHOD: GAMMA	1 FOOT OF WAT 1 PSI = 2.31 F INITIAL DEVI FINAL DEVI DATE DESCRIPTION (NONDESTRUCTIVE RAY ROM PROFILE SE	ER = .433 PSI EET OF WATER VIATION: TIME ATTACH SKET VELY TESTED HEET TE-	FRX-52 WATER SOURCE TAP PRESSURE PRESSURE A.M. MAP STATION P.M.	PSIG PSIG PSIG PSIG PSIG PSIG ELEVATION REPAIRS MADE (USI	POST BACK IF NEEDED OR U.S.G.S.	% S.M.Y.S. % S.M.Y.S. FAILURE PRESSU PSIG	WATER SOURCE TEMPERATURE 790 SEVIATION PSI FRE % S.M.Y.S. BYMOBILE LAB DATE
USEFUL CONVERSION FACTORS: DEVIATION DATA (OBSERVED AT PRESSURE PT) FAILURE DATA (OBSERVED AT FAILURE PT) V ALL TIE-IN WELDS WERE METHOD: GAMMA ELEVATION DATA DERIVED F	1 FOOT OF WAT 1 PSI = 2.31 F INITIAL DEVI FINAL DEVI DATE DESCRIPTION (NONDESTRUCTIVE RAY ROM PROFILE SE	ER = .433 PSI EET OF WATER VIATION: TIME ATTACH SKET VELY TESTED HEET TE-	WATER SOURCE TAP PRESSURE PRESSURE A.M. MAP STATION P.M. CH OR PHOTO)	PSIG PSIG PSIG PSIG ELEVATION REPAIRS MADE (USI TEST INSPECTOR SIGNATURE: DISTRICT SIGNATURE: DIVISION	POST BACK IF NEEDED OR U.S.G.S TEST A	% S.M.Y.S. % S.M.Y.S. FAILURE PRESSU PSIG	WATER SOURCE TEMPERATURE 79 O DEVIATION PSI RE % S.M.Y.S. BY MOBILE LAB DATE 4 E/26/80 - 1-12-81
USEFUL CONVERSION FACTORS: DEVIATION DATA (OBSERVED AT PRESSURE PT) FAILURE DATA (OBSERVED AT FAILURE PT) V ALL TIE-IN WELDS WERE METHOD; GAMMA ELEVATION DATA DERIVED F	1 FOOT OF WAT 1 PSI = 2.31 F INITIAL DEVI FINAL DEVI DATE DESCRIPTION (NONDESTRUCTIVE RAY ROM PROFILE SE	ER = .433 PSI EET OF WATER VIATION: TIME ATTACH SKET VELY TESTED HEET TE-	WATER SOURCE TAP PRESSURE PRESSURE A.M. MAP STATION P.M. CH OR PHOTO)	PSIG PSIG PSIG PSIG ELEVATION REPAIRS MADE (USI TEST INSPECTOR SIGNATURE: DISTRICT SIGNATURE: DIVISION	POST BACK IF NEEDED OR U.S.G.S.	% S.M.Y.S. % S.M.Y.S. FAILURE PRESSU PSIG	WATER SOURCE TEMPERATURE 790 SEVIATION PSI FRE % S.M.Y.S. BYMOBILE LAB DATE 1 E/26/80

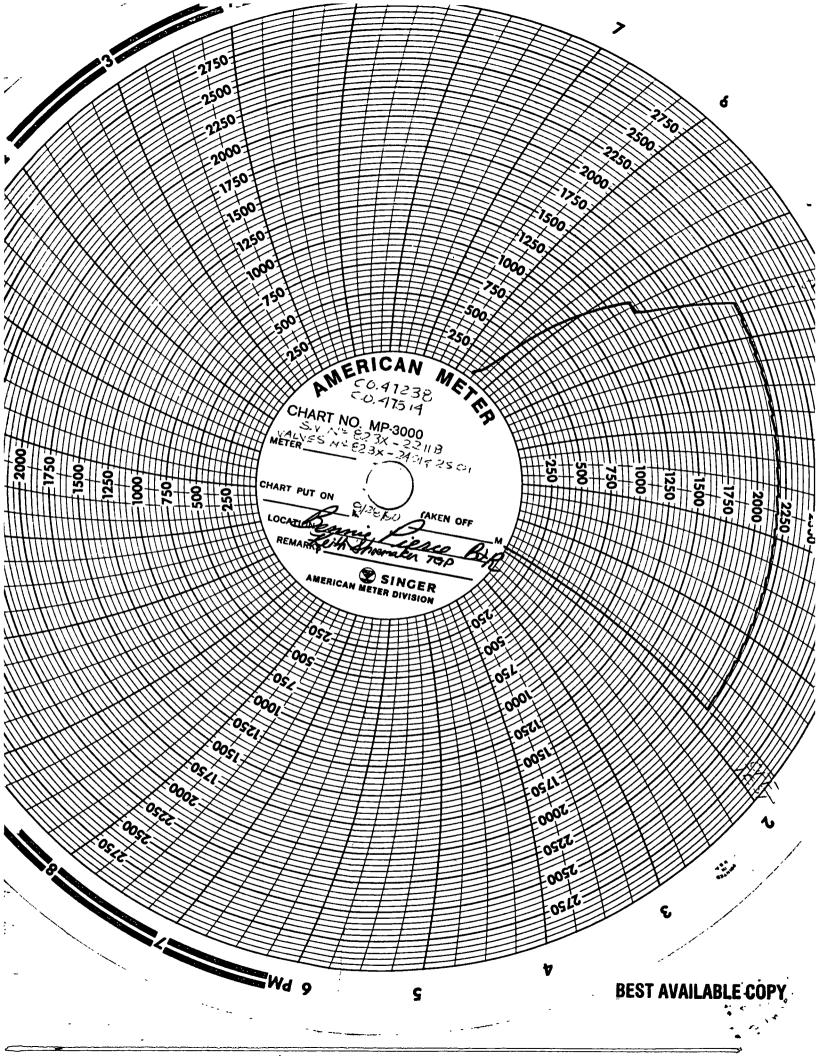
L		1	ABLE OF TEST PR		
DATE	TIME	DEAD	TEMPE	RATURE	REMARKS: ON TEST, WEATHER, BLEED OFF, OFF TEST,
		WEIGHT	TEST WATER	AMBIENT	NEMARKS: NO. OF STROKES FOR REPRESSURE, ETC.
Planie -	9.35 AM	2170	790	820	ON TEST, CLOUDY
<u>8/28/80</u>	9:45	2/72	790	820	- ON 1201) CLOUNT
			79°	820	BLEED TO 2165#
	9:50	2175	80°	· 83°	BLEED TO 2163 @ 9'54 PRESSURE CHART
	10:10	2175	800	84°	
	10:19	2/75	8/6	84°	8LEED TO 2165
	10:30	2175	620	84°	8LEED TO 2165
· · · · · · · · · · · · · · · · · · ·	10:41	2/75	82°	840	8LEE 1) TO 216 7
	10.4R	2175	820	84'	BLEED TO 2163
	11.00	2/75	830	85°	BLEED 70 2163
				85°	
	11:09	2175	83° 83°		BIEED TO 2163
	11.18	-2/75		860	BLEED TO 2162
	11:30	2/75	84°	86°	BITED 70 2/62
		217.5	84'	86.	BIFFD 70 3/62
	11.47	1.2/75	850	86°	BIFFD TO 2162
	11:55	2175	850		RIED TO 2162
	12:05	2/75	£5°	870	BLEFO TO 2162
<u> </u>	12'17	2175	85°	87°	BIEED TO 2162
	12:25	2175	850	87°	BIED TO 2762
	12:35	2/75	85°	870	" "
	12:43	2/75	850	87°	P
	12:51	2175	62,	88°	
	1:05	2175	. 86°	€8°	// //
	1:16	2/75	96°	88°	
	1:25	2/75	850	<i>88°</i>	1.
	1:35	2/75	<u> </u>	<i>8</i> 7°	BLEED OPF TEST
			•		
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#		1			
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COMMENTS					

COMMENTS:

PRESSURE CHART- BARTON S/N 242A-1028
TEMFERATURE RECORDER- BARTON S/N 2399985
DEAD WT. APPARATUS- CHANOLER S/N 4731

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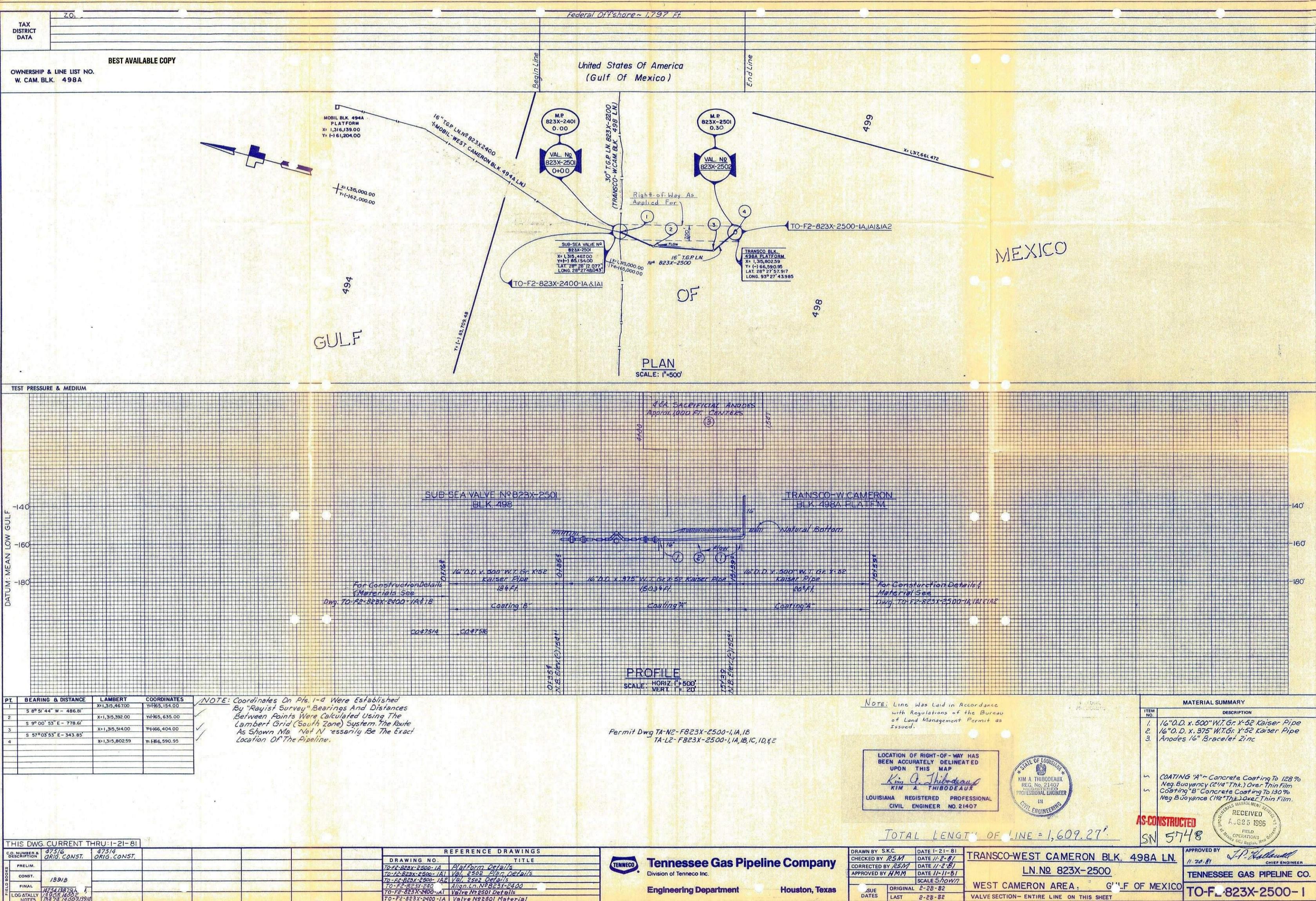


ATTACHMENT 5

NOTIFICATION OF HYDROSTATIC TEST

	Date: 11-20-80
1.	OCS Number G 4291
2.	Name of Company Tenneco, ZNC.
3.	Size of Pipeline 16" GAS Length MilesQ: 27
4.	From where to where Inanco Explaration Company's "A" Platform to
	(area, block number and platform name) a Subsea Tie with OC5-G4171, all which are local
	in Block 498 West Comeron Chean So. Add.
5.	Platform where hydrostatic test instruments will be set up Mobil's "A" Platform
	in West Common ann, Block 494
6.	Contractors Name and Barge Name or Number BRown & Root Inc.
	# 228
7.	Date and Time of Proposed Test November 22, 1980
	Name of Company Contact harry Slauik
	Telephone Number (504) 876 - 4516 Horney he
	BLM's Notification To: USGS FRANK TORRES by Copy of this Make U. S. Coast Guard N/A
N	OTE: Notification may be made by calling Autry Britton at A.C. 504 589-6541 between the

Duly Joseph - BLM



In Reply Refer To: RP-2-2

APR 1 8 1986

Tenneco Inc. Attention: Mr. R. S. Perot Post Office Drawer 53388 Lafayette, Louisiana 70505

Gentlemen:

Please furnish proof of construction in accordance with 30 CFR 256.95 on the following pipeline rights-of-way:

OCS-G Number	Date of Permit
2047	7/25/85
7575	5/21/85
8050	7/26/85
8046	7/31/85
3640	12/16/77
4172	12/13/79
4291	5/06/80
4290	5/01/80

(Urig. Sgd.) A. Donald Giroir

Acting Regional Supervisor Rules and Production

Enclosure

bcc: SEQ-1b (RP-2-2)

CWilliams:jj:4/14/86:PC Disk 2

5N 6748 ocs-6 4291

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West Cameron Area, South Addition

May 6, 1980

Tenneco Inc.

Right-of-Way

ACTION: APPLICATION APPROVED

Your application for a right-of-way 200 feet in width for the construction, maintenance, and operation of a 16-inch natural gas pipeline, 0.27 miles in length, from Transco Exploration Company's Platform "A" to a subsea tie-in with Tenneco Inc.'s proposed 30-inch pipeline (OCS-G 4171), all of which are located in Block 498, West Cameron Area, South Addition, dated February 15, 1980, with its attachments is hereby approved with the following additions and corrections:

- 1. Valve guards will be anchored in the following manner:
 - a. Six (6) anchor pins will be installed deep enough so as to reach firm soil.
 - b. Immediately following installation, the corners shall be sandbagged.
 - The ANSI 600 valves should not be subjected to a testpressure differential greater than 1,440 psig.
 - The ANSI 600 valves, flanges, and fittings should not be subjected to a body test greater than 2,175 psig.

John L. Rankin Manager

c:

Geological Survey, USDI Office of Pipeline Safety Operations, USDT

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LANZA 3/19/80
CHOREH/S 3/20/8°
Steinmille 3/20/8°

Pomelaum
3/24/8°
For D. Holamas

Myston

Myston

Myston

Maytimem Allaushla Angustina

MAR 2 8 1980

In Reply Refer To: OS-5

Memorandum

To:

Manager, Bureau of Land Management, 841 Hale Boggs Federal Building,

500 Camp Street, New Orleans, Louisiana 70130

From:

Conservation Manager, Gulf of Mexico OCS Region

Subject:

Tennessee Gas Pipeline Company's Pipeline Right-of-Way Application,

BLM OCS-G 4291

We have reviewed the safety features and design specifications for the subject Right-of-Way Application, dated February 15, 1980, in accordance with the MOU dated August 1, 1974. It is for the construction, maintenance and operation of a 16-inch natural gas pipeline 1,439 feet in length from Transco's Platform "A", to a subsea tie-in with a proposed 30-inch Tennessee Gas Pipeline Company pipeline, all located in West Cameron Block 498, lease OCS-G 3520.

Based upon information submitted in the application, the design characteristics of this pipeline are calculated to be as follows:

Pipeline Component	Pressure/MP Ratings
Submerged component Riser component	1,755 psig 1,625 psig
Valves, flanges, fittings	1,440 psig

The hydrostatic pressure test with water will be at 2,160 psig for eight hours for the submerged component. The riser will be preinstallation-tested to a pressure of 2,160 psig for four hours. The ANSI 600 valves should not be subjected to a test-pressure differential greater than 1,440 psig. The ANSI 600 valves, flanges, and fittings should not be subjected to a body test greater than 2,175 psig.

Based on these calculations and a maximum allowable operating pressure (MAOP) of 1,440 psig of the receiving 30-inch Tennessee Gas Pipeline Company pipeline (BLM OCS-G 4171), we recommend that the MAOP for this pipeline be 1,440 psig, which is the hydrostatic test pressure divided by 1.5, and that this pressure may be exceeded only when hydrostatically pressure-testing the pipeline. We also recommend that valves and taps at the proposed subsea tie-in be provided with a minimum of three feet of cover, either through burial or with sandbags.

2

Our records indicate there are two proposed pipelines within 4,000 feet of the subject pipeline. We recommend that the applicant be advised of the presence of these lines so that they can be avoided in the planning and conduct of his operations.

It is the opinion of this office that the design and installation of the valve guards proposed for this pipeline are not in the best interest of the multiple-use concept of the OCS. We feel that installations of this type present an obstruction and that all valves on the OCS should be provided with a minimum of three feet of cover, either through burial or with sandbags.

The technical aspects of the proposed pipeline are acceptable in accordance with appropriate regulations and standards.

We would appreciate receiving a copy of the plat showing the location of the pipeline as installed.

(Orig. Spil)-J. Combur Bank

Lowell G. Hammons

cc: 1502-01 BLM OCS-G 4291 (w/ord g appln) (OS-5)

CM Reading File
OMS-4 (w/cy of location plat)

RCLanza: GHSchonekas: nhn:3/19/80



TEL (504) 837-4720

United States Department of the Interior

GEOLOGICAL SURVEY

IMPERIAL OFFICE BLDG . 3301 N CAUSEWAY BLVD
P O BOX 7944

METAIRIE. LOUISIANA 70010

In Reply Refer To: OS-5

MAR 2 8 1980

NEW ORLEA	ns ocs
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Memorandum

To:

Manager, Bureau of Land Management, 841 Hale Boggs Federal Building,

500 Camp Street, New Orleans, Louisiana 70130

From:

Conservation Manager, Gulf of Mexico OCS Region

Subject:

Tennessee Gas Pipeline Company's Pipeline Right-of-Way Application,

BLM OCS-G 4291

We have reviewed the safety features and design specifications for the subject Right-of-Way Application, dated February 15, 1980, in accordance with the MOU dated August 1, 1974. It is for the construction, maintenance and operation of a 16-inch natural gas pipeline 1,439 feet in length from Transco's Platform "A", to a subsea tie-in with a proposed 30-inch Tennessee Gas Pipeline Company pipeline, all located in West Cameron Block 498, lease OCS-G 3520.

Based upon information submitted in the application, the design characteristics of this pipeline are calculated to be as follows:

Pipeline Component	Pressure/WP Ratings
Submerged component	1,755 psig
Riser component	1,625 psig
Valves, flanges, fittings	1,440 psig

The hydrostatic pressure test with water will be at 2,160 psig for eight hours for the submerged component. The riser will be preinstallation-tested to a pressure of 2,160 psig for four hours. The ANSI 600 valves should not be subjected to a test-pressure differential greater than 1,440 psig. The ANSI 600 valves, flanges, and fittings should not be subjected to a body test greater than 2,175 psig.

Based on these calculations and a maximum allowable operating pressure (MAOP) of 1,440 psig of the receiving 30-inch Tennessee Gas Pipeline Company pipeline (BLM OCS-G 4171), we recommend that the MAOP for this pipeline be 1,440 psig, which is the hydrostatic test pressure divided by 1.5, and that this pressure may be exceeded only when hydrostatically pressure-testing the pipeline. We also recommend that valves and taps at the proposed subsea tie-in be provided with a minimum of three feet of cover, either through burial or with sandbags.

Our records indicate there are two proposed pipelines within 4,000 feet of the subject pipeline. We recommend that the applicant be advised of the presence of these lines so that they can be avoided in the planning and conduct of his operations.

It is the opinion of this office that the design and installation of the valve guards proposed for this pipeline are not in the best interest of the multiple-use concept of the OCS. We feel that installations of this type present an obstruction and that all valves on the OCS should be provided with a minimum of three feet of cover, either through burial or with sandbags.

The technical aspects of the proposed pipeline are acceptable in accordance with appropriate regulations and standards.

We would appreciate receiving a copy of the plat showing the location of the pipeline as installed.

In Lowell G. Hammons







United States Department of the Interior

OCS-G 4291

BUREAU OF LAND MANAGEMENT

NEW ORLEANS OUTER CONTINENTAL SHELF OFFICE
HALE BOGGS FEDERAL BUILDING
500 CAMP STREET-SUITE 841
NEW ORLEANS, LA 70130

February 26, 1980

Memorandum

To:

Conservation Manager

Gulf of Mexico OCS Operations

From:

Manager

New Orleans OCS Office

Subject: Review of Pipeline Right-of-way Application

In accordance with the memorandum of understanding between the Bureau of Land Management and U. S. Geological Survey signed August 1, 1974, the subject application is enclosed.

Please review the technical aspects of the proposed pipeline. If you have any questions regarding this matter, please contact Mr. Autry J. Britton of this office.

Enclosures

1-Application dated February 15, 1980 2-Drawings No. TA-L2-F823X-2500-1, TA-L2-F823X-2500-1A,

TA-L2-F823X-2500-1B, TA-L2-F823X-2500-1C, and

TB-L2-F823X-2500-1D

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Manuleres

FEB 2 7 1980 NOTED-SCHONEKAS

Division of Tenneco Inc

PO Drawer 53388 Lafayette, Louisiana 70505 (318) 233-7802



• FEB 1 5 1980

Mr. John L. Rankin, Manager Outer Continental Shelf Office 500 Camp Street, Suite 841 Hale Boggs Federal Building New Orleans, LA 70130

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UEI 7:185. LA	OUTER CONTINENTAL	3 52 PM 'BI	RECEIVED

Re: Application - Right of Way for 16"

Natural Gas Pipeline in West

Cameron Area, Gulf of Mexico

(W. C. Blk. 498 Line)

Dear Mr. Rankin:

Pursuant to the authority granted in Section 5 (e) of the Outer Continental Shelf Lands Act (67 Stat.462) (43 U.S.C. 1331), as amended (92 Stat.629), and in compliance with the regulations contained in Title 43 CFR 3340, Tennessee Gas Pipeline Company, A Division of Tenneco Inc., is filing this application for a right of way 200 feet (200') in width for the purpose of constructing and maintaining a(x) sixteen (16") inch natural gas pipeline in the West Cameron Area Gulf of Mexico. Tennessee Gas Pipeline Company agrees that said right of way, if approved, will be subject to the terms and conditions of said regulations.

This pipeline will be used to gather and transport natural gas from Transco's "A" platform in Block 498, West Cameron Area, in the Gulf of Mexico. The tentative construction date is June 1, 1980, and tentative completion date is July 30, 1980.

As set forth in the February 13, 1978, guidelines, the applicant agrees to furnish the following:

- 1. Letter of Application, in triplicate.
- 2. Certified and Return Receipts with copies of letter of notification to each lessee or right of way holder whose lease or right of way is affected by this application. Such lessees and right of way holders are identified on "Exhibit A" attached hereto.

Mr. John L. Rankin, Manager Page Two

- 3. Six (6) blue line prints of Drawing No. TA-L2-F823X-2500-1,

 1A, 1B & 1C , and TB-L2-F823X-2500-1D , showing the location, profile and route of the proposed pipeline, and Hi-Lo Censor locations.
- 4. Two (2) blue line prints of Drawing No. TA-L2-F823X-2500-2 showing the leases and pipeline rights of way.
- 5. Bury all pipelines to a minimum of 3 ft. of cover up to the 200 ft. contour.
- 6. Bury all sub-sea valves to a minimum of 1 ft. of cover regardless of water depth.
- 7. A hazard survey report of the proposed right of way route is attached in duplicate.
- 8. An archaeological survey report as stipulated in requirements is attached in duplicate.
- 9. In accordance with the guidelines, an As-Built map, along with diving inspection reports, will be provided within 90 days after completion of the pipeline.
- 10. Safety devices will be provided as set forth on attached Schematic Drawing No. TA-L2-F823X-2500-1B.
- 11. Proper notification prior to construction and hydrostatic testing will be adhered to.
- 12. Any pipeline crossings will be in compliance with the guidelines as set forth.
- 13. Any breaks, leak failures or accidents will be reported as required.

In addition to the above information, applicant submits the following information:

 Water depth along route of proposed pipeline and pipeline in relationship to natural bottom as set forth on attached Drawing No. TA-L2-F823X-2500-1A.

Mr. John L. Rankin, Manager Page Three

- 2. The description of the pipe and coating is as follows:
 - a. Line Pipe

16" O.D. x __375" W.T. Gr. x-52; Weight Bare - 62.6 #/ft. coated with 22 mils of heat cured epoxy or coal tar enamel 6/32" thick, and weighted with a continuous coat of 140# density concrete 2½" thick, giving a specific gravity of 1.35 in salt water (64.0#/cu. ft.)

b. Riser Pipe

16" O.D. x .500" W.T. Gr. x-52; Weight Bare - 82.8 #/ft. coated with 22 mils of heat cured epoxy or coal tar enamel 6/32" thick, and weighted with a continuous coat of 140# density concrete 2" thick, giving a specific gravity of 1.40 in salt water (64.0#/cu. ft.)

c. Internal Coating

The analysis of the transported products will be monitored and preventive measures such as pigging and/or inhibiting will be employed as necessary.

- 3. Valves and Flanges
 - a. Below water valves and flanges will be A.N.S.I. 900 series with a rated working pressure of 2,160# P.S.I.
 - b. Above water valves and flanges will be A.N.S.I. 600 series with a rated working pressure of 1,440# P.S.I.
- 4. The specific gravity of the product being transported is anticipated to be .60 (Air = 1.0), $T = 60^{\circ}F$.
- 5. Weight, type and spacing of anodes to be used as corrosion protection are shown on attached Drawing No. TA-L2-F823X-2500-1B entitled "Schematic". The life expectancy of the proposed pipeline is indefinite. The sacrificial anodes are designed for 40 year life and are to be replaced as necessary to extend life of pipeline.

Mr. John L. Rankin, Manager Page Four

- 6. The design of the proposed pipeline is in accordance with the "Minimum Federal Safety Standards (Department of Transportation) Title 49, CFR, Part 192".
- 7. Maximum Allowable Operating Pressure (M.A.O.P.) = 1,440# P.S.I.G.

Maximum Capacity = 92.7 MMCF/D

Maximum Operating Pressure (M.O.P.) is less than or equal to 1,440# P.S.I.G.

Minimum Operating Pressure = 500# P.S.I.G.

A. Calculations

$$P = \frac{2st}{d}$$

$$M.A.O.P. = 2st (F) (E) (T)$$

d

Whereas: P = 100% S.M.Y.S.

s = Specified Minimum Yield Strength

t = Nominal Wall Thickness in Inches

d = Nominal Outside Diameter in Inches

(F) = 0.50 for Riser Pipe

= 0.72 for Line Pipe

As per Title 49, CFR, Part 192.619

- (E) = 1 for seamless and DSA welded pipe
- (T) = 1 for temperature less than 250 F
- a. Riser Pipe

$$P = \frac{2 \times .500" \times 52,000}{16"} = \frac{3,250 \text{ P.S.I.G.}}{10}$$

(1) M.A.O.P. (Design)

M.A.O.P. =
$$\frac{2 \times .500" \times 52,000 \times .50 \times 1 \times 1}{16"} = \frac{1,625 \text{\#P.S.I.G}}{}$$

Mr. John L. Rankin, Manager Page Five



(2) M.A.O.P. (Hydrostatic Test Pressure)

H.T.P. = P x 95%
=
$$3,250 \times .95$$
 = $3,088 \# P.S.I.G.$
H.T.P. will be 2,160 # P.S.I.G. for 4 hrs.
M.A.O.P. = $\frac{2,160}{1.5}$ = 1,440 # P.S.I.G.

(3) M.A.O.P. = $\frac{1,625\#}{1,440\#}$ P.S.I.G. (Design) or $\frac{1,440\#}{1,440\#}$ P.S.I.G. (H.T.P.)

NOTE: Riser will be Pre-Tested.

b. Line Pipe

$$P = \frac{2 \times .375" \times 52,000}{16"} = \frac{2,437# P.S.I.G.}{}$$

(1) M.A.O.P. (Design)

M.A.O.P. =
$$\frac{2 \times .375" \times 52,000 \times .72 \times 1 \times 1}{16"} = \frac{1,755 \text{\#P.S.I.G}}{}$$

(2) M.A.O.P. (Hydrostatic Test Pressure)

H.T.P. = P x 95%
=
$$2,437$$
 x .95 = $2,315\#$ P.S.I.G.
H.T.P. will be 2,160 $\#$ P.S.I.G. for 8 hrs.
M.A.O.P. = $\frac{2,160}{1.25}$ = 1,728 $\#$ P.S.I.G.

(3) M.A.O.P. = $\frac{1,755\#}{1,728\#}$ P.S.I.G. (Design) or P.S.I.G. (H.T.P.)

Since there are A.N.S.I. 600 series valves in the system, the M.A.O.P. therefore, is restricted to 1,440# P.S.I.G.

8. The producers equipment will be designed for 1,440# P.S.I.G.

Mr. John L. Rankin, Manager Page Six

9. The 30" line that the proposed line will tie into is 30" O.D. x .625" W.T. Gr. X-52 pipe.

The riser is (Not Applicable) pipe.

- 10. Originally signed copy of Non-Discrimination in Employment Stipulations is enclosed in duplicate.
- 11. Company contact:

Mr. Reno G. Robertson
Division Civil Engineer
P. O. Drawer 53388, OCS
Lafayette, Louisiana 70505
318/233-7802

12. Tennessee Gas Pipeline Company's Draft No. 28059 in the amount of \$115.00 of which \$100.00 covers the application fee and \$15.00 covers the first year's rental on 0.273 miles of right of way is also enclosed.

This application (and any amendments made hereto) is made with our full knowledge and concurrence with the CCS Lands Act (43 U.S.C. 1331 et seq.), as amended, (P.L. 95-372), including the following: Sec. 5(e) addressing pipeline rights-of-way, Requirements of the Federal Energy Regulatory Commission notice of hearing, transportation and purchase of oil and gas without discrimination; Sec. 5(f) (1) addressing operation of pipelines in accordance with competitive principles, including open and nondiscriminatory access to both owner and non-owner shippers; Sec. 5(f) (2) which may allow exemption of the requirements in Sec. 5(f) (1); and Sec. 21(b), addressing the assuring of maximum environmental protection, including the safest practices for pipeline burial.

Additionally, we expressly agree that if any site, structure, or object of historical or archaeological significance should be discovered during the conduct of any operations within the permitted right of way, we shall report immediately such findings to the Manager, New Orleans OCS Office, and make every reasonable effort to preserve and protect the cultural resource from damage until the Manager, New Orleans OCS Office, has given directions as to its preservation.

Mr. John L. Rankin, Manager Page Seven

Please refer to your miscellaneous 014 file for a copy of a resolution approved by the Board of Directors authorizing the undersigned as Supervisor - Rights of Way of Tennessee Gas Pipeline Company, a Division of Tenneco Inc., to sign for and on behalf of the Company.

We trust the above information will enable you to expedite the issuance of the Decision approving said right of way.

Yours very truly,

TENNESSEE GAS PIPELINE COMPANY A DIVISION OF TENNECO INC.

F. J Millette, Supervisor

Rights of Way as

Agent and Attorney-in-Fact

FJM/jsb

Certified Mail - Return Receipt # 9449460

Mr. John L. Rankin, Manager Page Eight

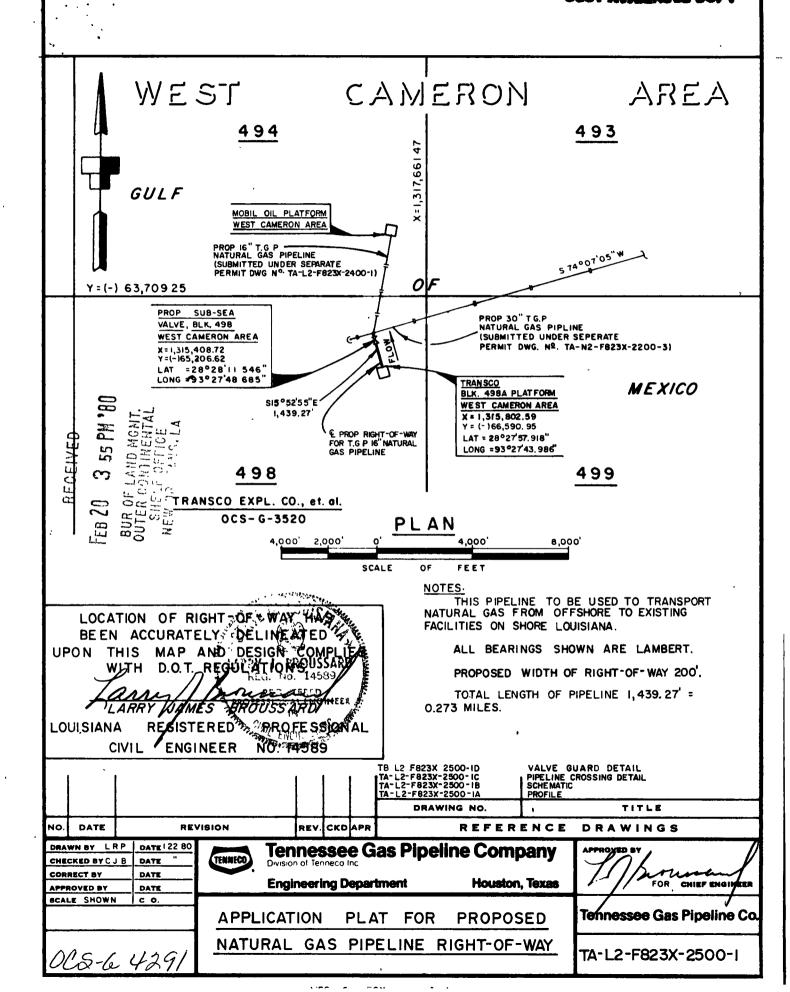
"EXHIBIT A"

FEB 20 3 52 PM 8
BUR OF LAND MOMT.
OUTER CONTINENTAL
SHELF OFFICE

On this date, February 1, 1980, the following Lessee(s) and right of way holder(s) were notified by Registered Mail, Return Receipt Requested:

1.	Transco Exploration Company	OCS-G 3520
2.	Energy Development Corporation	OCS-G 3520
3.	The Superior Oil Company	OCS-G 3520
4.	Freeport Oil Company	OCS-G 3520
5.	Pioneer Production Corporation	OCS-G 3520
6.	The Continental Group, Inc.	OCS-G 3520
7.	Apache Corporation	OCS-G 3520

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BEST AVAILABLE COPY 10+00 0+00 2+00 6+00 8+00 12+00 4+00 S 15 0 5 2' 55 "E 1,439.27 WATER ELEV 000 (M L.G.) 0 ٥, BLK RISER TO TRANSCO BLK 498A PLATFORM VALVE WEST CAMERON AREA ST 16" SUB- SEA 50 - 50' - 100 - 100 -3'- 0" MIN. COVER -I' - O" MIN COVER NATURAL BOTTOM -150- 150 PROPOSED TGP 16" 'NATURAL GAS PIPELINE FEB 20 - 200 -200 DATUM - MEAN LOW GULF BUR OF PROFILE RECEIVED 50 150 SETTIMENTAL NG. LA. VERTICAL SCALE HORIZONTAL SCALE 71 377 The state of the s TB-L2-F823X-2500-ID TA-L2-F823X-2500-IC TA-L2-F823X-2500-IB TA-L2-F823X-2500-I VALVE GUARD DETAIL PIPELINE CROSSING DETAIL SCHEMATIC PLAN DRAWING NO. TITLE REVISION REV. CKD APR REFERENCE DRAWINGS NO. DATE DATE | 22 80 DRAWN BY LRP Tennessee Gas Pipeline Company TEMMECO CHECKED BYC J B DATE Division of Tenneco Inc DATE **Houston, Texas Engineering Department** FOR CHIEF E DATE APPROVED BY SCALE SHOWN C O Tennessee Gas Pipeline Co. **APPLICATION** PLAT FOR **PROPOSED** NATURAL GAS PIPELINE RIGHT-OF-WAY TA-L2-F823X-2500-IA

UNDER WATER TIE - IN **CAMERON AREA** WEST **BLK. 498**

PROPOSED T.G.P. 30" NATURAL GAS PIPELINE (LINE Nº. 823X-2200)
30.000" O.D. x .625" W.T. GR. X-52 (FILED UNDER SEPARATE PERMIT DWG Nº TS-L2-F823X-2200-1 & TA-L2-F823X-2200-3 , OCS-G-4174)

PIPE

X-52

0.0 ×

<u>.</u>9

F.

, 219 # EA TO CENTER

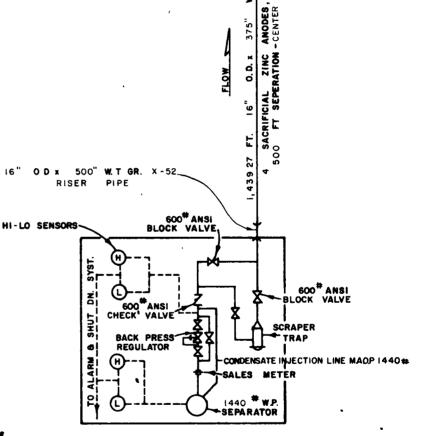
900 ANSI BLOCK VALVE-900# ANSI CHECK VALVE-

FLOW

NOTE:

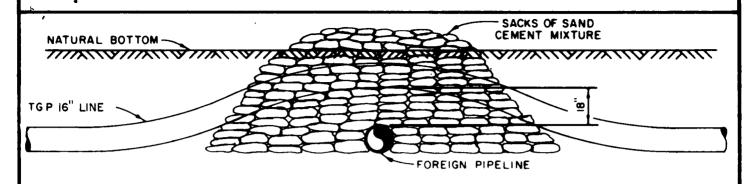
THE DESIGN CHARACTERISTICS OF THE PIPELINE ARE IN COMPLIANCE WITH D.O.T. REGULATIONS.

TRANSCO WEST CAMERON AREA **BLK. 498A**

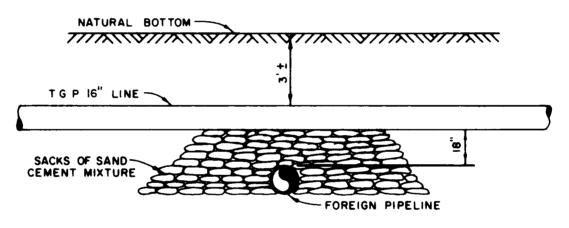


				1			TA-L2-F823X-2500-IC TA-L2-F823X-2500-IA TA-L2-F823X-2500-I	PIPELINE PROFILE PLAN	CROSS	BING DE	ETAIL	
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NO.	DATE	RE	/ision	REV.	CKD	APR	REFER	ENCE	DR	AWI	NGS	
COR	WN BY S G W CKED BY C J RECT BY ROVED BY						SEP ENGINEER					
BCAL	SCHEMATIC PROPOSED T.G.P. 16" WEST CAMERON BLK. 498A LINE Tennessee Gas Pipeline Co.											
		WEST CAM	<u>IERO</u>		ARI		EXICO	TA	-L2	-F823X	-2500HB	

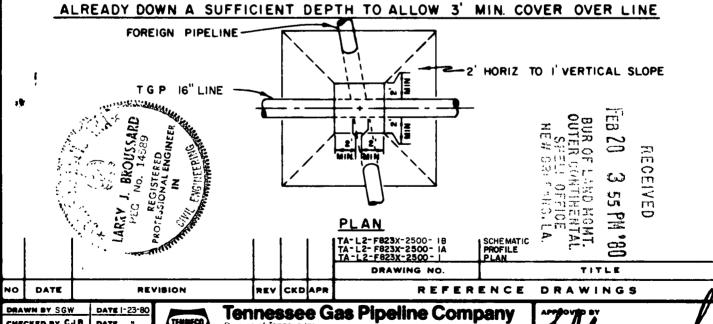
HEST AVAILABLE COD .



CROSSING METHOD USED WHEN FOREIGN PIPELINE CAN NOT BE JETTED DOWN AND IS TOO SHALLOW TO ALLOW 3' MIN COVER OVER LINE



CROSSING METHOD USED WHEN FOREIGN PIPELINE CAN BE JETTED DOWN OR IS



CHECKED BY CJB DATE CORRECT BY APPROVED BY NONE

Engineering Department Houston, Texas

PROPOSED NATURAL GAS PIPELINE PIPELINE CROSSING TYPICAL

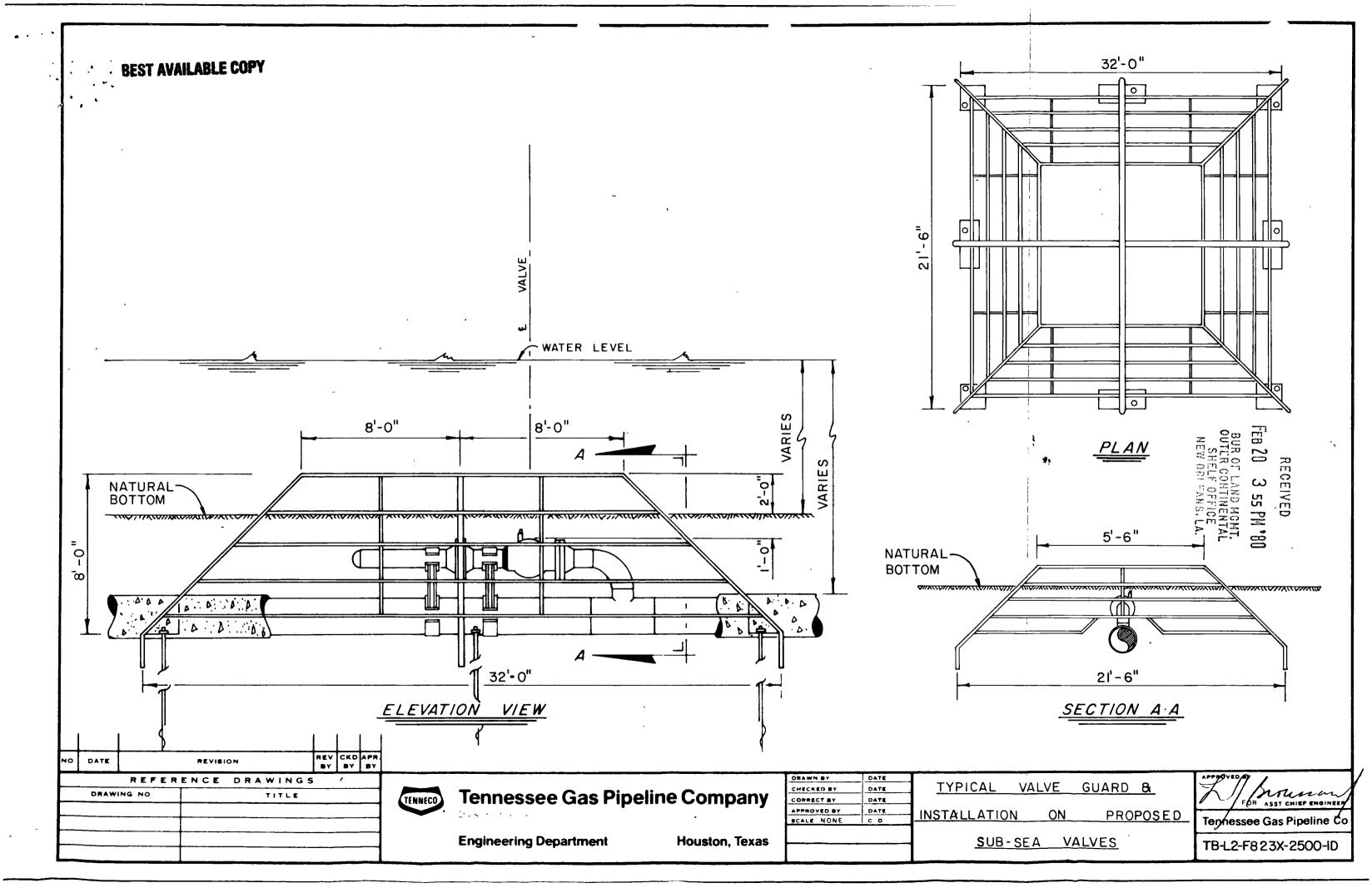
SEPARATION DETAIL WEST CAMERON AREA **GULF**

MEXICO

Tegnessee Gas Pipeline Co.

FOR CHIEF ENGINEER

TA-L2-F823X-2500-IC



4291

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Α.

Revised 1/15/80

PIPELINE APPLICATION CHECK LIST

INSTRUCTIONS: Check the blank on the left if the statement is affirmative or correct data submitted. Make N/A (not applicable) where appropriate. Place an X in the blank if the answer is no or if the data was not submitted. All blanks marked X must be rectified to a check (or qualified) before approval can be given for the pipeline. Enter data in the blanks furnished.

Veri	fy t	he following general information:
I.	SOP	
<u> </u>		Do the leases involved on the P/L application appear on the current Suspension of Production (SOP) Lease List?
II.	POD	
	a.	Is the pipeline presently covered by an approved Plan of Development (POD)?
III.		se Stipulation Yes No Ves, does lease require an archaeological survey? Yes
IV.	USG	S Application
	a.	The applicant is a Federal lease holder and the pipeline is to be used for such purposes as:
_		1. Moving production to a control point for gathering, treating storing, or measuring.
_	· · · · ·	2. Delivery of production to a point of sale.
		3. Delivery of production to a pipeline operated by a transportation company.
_	 	4. Moving fluids in connection with lease operations, such as for injection purposes.
	b.	The pipeline is within the lease boundary owned by the operator.
	c.	Pipeline is within contiguous lease boundaries.
	. d.	Pipeline is within noncontiguous lease boundaries. (Note: Items b, c, and d all fall under 30 CFR 250.18)
/	e.	Lessee's "intent to cross" letters are received. (Wait 30 days for letters of objection. Only objections concerning interference with lease operations will be considered.)
	f.	Pursuant to Secretarial Order 2974 of April 30, 1975, check

		2. FWS comment received
		3. BLM notified
		4. BLM comment received
		5. Environmental Impact Evaluations completed
	\leq	6. If related to new POD/P, date of POD/P approval
v.	BLM	Application
<u></u>	a.	The pipeline must not be a gathering line.
VI.	DOT	Pipelines
<u> </u>	a.	The pipelines are shoreward of the outlet flange at the last process facility (If yes, include 49 CFR 192 for gas P/L or 49 CFR 195 for oil P/L in approval.)
II.	DOI	Pipelines
NA	a.	Pipelines not covered by VI above.

	g contains the following:
I.	The pipeline leaving the platform receiving production from the platform is equipped with high- and low-pressure sensors to directly or indirectly shut-in the well or wells on the platform.
<u>M/M</u> 11.	The pipeline delivering production to production facilities on the platform is equipped with automatic fail close valve tied into the automatic and remote shut-in system.
<i>VM</i> 111.	The pipeline crossing the production platform which does not deliver production to the platform, but which may or may not receive production from the platform, is equipped with high-and low-pressure sensors connected to an automatic fail close valve located in the upstream portion of the pipeline at the platform. In addition, the sensors are tied into either the platform's automatic and remote shut-in system or an independent remote shut-in system.
IV.	The pipeline boarding the platform is equipped with a check valve.
V.	The pipeline leaving the platform is equipped with a check valve.
Alavi.	The pipeline pump is shown as well as its associated high- and low-pressure shut-in device.
<i>Ma</i> vII.	If pipeline pilots are located on any pressure vessel or downstream of a departing check valve, all flow restriction(s), (backpressure valve(s), chokes), downstream of the process vessel, or wellhead, and upstream if check valve(s) must be indicated on the schematic.
	If flow restriction(s) exist downstream of any process vessel a a low pressure sensor must be installed between the flow restriction(s) and the departing check valve(s). High-pressure sensor(s) must be installed downstream of the wellhead choke.
	Reference API RP 14C, Pages 23 and 59
VIII.	Pressure source is drawn into the schematic with the following:
	a. Source Searchton.
	b. Maximum source pressure, psig
IX.	The rated working pressures of all separators, pumps, compressors, valves, flanges, and fittings upstream of and including the boarding automatic fail close valve are shown. ANSI 600

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C. Verify that the <u>location plat</u> depicts the following:
I. Location of pipeline
II. Length of pipeline
III. Size of pipeline
IV. Type of service
V. Direction of flow
VI. X-Y coordinates of key ponts
D. Verify that the information given on the submitted data sheet is completed; and calculate the MAOP $_{\rm sc}$, MAOP $_{\rm p/1}$.
I. General information for calculating MAOP sc, MAOP rc, etc.
a. Size of pipeline, inches
b. Weight of pipeline, lbs./ft. 62.6
c. Grade of pipeline $X5Z$
d. Wall thickness, inches 0.375
e. Size of riser, inches
f. Weight of riser, lbs./ft. 82.8
g. Grade of riser $\chi-52$
h. Wall thickness of riser, inches 0.50
i. Minimum WP rating of piping, fittings, valves, psig $\frac{1100}{\text{Riser}}$
j. Hydrostatic test pressure (HTP), psig Z160 Z160
k. Hold time, hrs.
1. Classification of pipeline (oil or gas) 6AS
m. Type of pipe (ASTM A-106, API-5L, etc.) NOTE: If ASTM A-53 Reference API RP 14E, Section 2.1.a(2)

* RISER IS PRE-TESTED.

II.	DOI	Pipelines	
	a	IP @ SMYS for submerged pipeline = 2st	*
		D .	
	b.	(.72 x IP @ SMYS) for submerged pipeline	-(MAOPsc)
	c.	IP @ SMYS for riser = 2st =	
	d.	(.60 x IP @ SMYS) for riser =	$(MAOP_{rc})$
	e.	See Ii above (MAOP _{pfv}) =	(MAOP _{pfv)}
	_f.	Is 1.25 MSP = HTP = .95 (IP @ SMYS for smaller IP of a and	
		<u> </u>	·
	_g.	HTP/1.25 =	
	_h.	Is HTP hold time = 2 hours	
	_i.	MAOP of receiving pipeline from IV	
	_j.	MAOP = the smallest of b, d, e, g, and i above	
		(MAOP _{p/1}) .	
	_k.	Test pressure ANSI & API carbon steel RTJ & RF Flanges and	Valves
		(From Table 3.1, Page 31 API	[RP 14E)
	/بر	Is K > HTP	
		NOTE: If note, add statement in approval letter to insure flanges are note subjected to test pressure.	valves and
/ 	_m.	Is j≥MSP	
		If not, one of the following is necessary:	
		1. Redundant safety equipment is afforded.	
		2. A departure from the requirement for redundant sa	rfety equipment

Ι	Ι	Ι		DOT	Pip	el	in	es
_	_	_	-		1			

- a. IP @ SMYS for submerged pipeline = $\frac{2st}{D}$ = $\frac{2.437}{}$
- b. (.72 x IP @ SMYS) for submerged pipeline = 1755 (MAOP_{sc})
- c. IP @ SMYS for riser = $\frac{2st}{D}$ = $\frac{3250}{}$
- d. For oil P/L (.60 x IP @ SMYS) for riser = $\frac{1}{1625}$ (MAOP_{rc})

 For gas P/L (.50 x IP @ SMYS) for riser = $\frac{1}{1625}$
- e. See Ii above 1440 (MAOP_{pfv})
- f. Limit of Testing
- *NA* 1. For oil P/L
 - Is 1.25 MSP \(\frac{1}{2} \) HTP \(\frac{1}{2} \) .95 (IP @ SMYS for smaller IP of a and c above)
- 2. For gas P/L riser component:
 - Is 1.50 MSP = HTP of riser = .95 (IP @ SMYS of c above)
 - 2160 = 2160 = 3087
- 3. For gas P/L submerged component:
 - Is 1.25 MSP = HTP of submerged component = .95 (IP @ SMYS of a above

g. $MAOP_{p/1}$ based on HTP

1. For oil P/L HTP-1.25 = 1/17

2. For gas P/L riser component

HTP/1.5 = /4/0.
of riser

3. For gas P/L submerged component HTP/1.25 = 1728 of submerged component

h.	For oil P/L Is HTP hold time = 24 hours
ـــا	For gas P/L Is HTP hold time 2 8 hours .
i.	MAOP of receiving pipeline from IV
j.	$MAOP_{p/1}$ = the smallest of b, d, e, g, and i above
k.	Test pressure ANSI & API carbon steel RTJ & RF flanges and valves
<u></u>	Is k > HTP
	NOTE: If not, add statement in approval letter to insure valves and flanges are not subjected to test pressure.
m.	Is j Z MSP
	1440 > 1440.
	If not, one of the following is necessary:
	1. Redundant safety equipment is afforded
	2. A departure from the requirement for redundant safety equipment.

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IV. Pipeline Receiving Production (Installed Prior to July 31, 1977)

		Submerged Component	. Riser	
a.	Size, inches	30	···	
b.	Grade		• ————————————————————————————————————	
c.	Wall thickness, inches	3		
d.	Minimum working pressure of valves and flanges		(MAOPpfv)	
e.	Date of last hydrostatic test	**************************************	,	
f.	HTP, psig			
g.	Hold time, hrs.			
h.	MAOP based on HTP HTP/1.25			
i.	IP@SMYS for submer- ged P/L 2ST/D			
j.	(.72 x IP@SMYS) for submerged P/L		(MAOPsc)	
k.	IP@SMYS for riser 2ST/D			
1.	(.60 x IP@SMYS) for riser		(MAOPrc)	
m.	If the receiving P/L is a DOT gas P/L and has not been tested since July 1, 1971, then what is the HAOP to which the segment was subjected during the 5 years prior to July 1, 1976?			
n.	MAOP of receiving P/L \ge MAOP of proposed P/L \ge MSP of proposed P/L			
	1440 =	1440	z 1440.	

*HAOP - Highest actual operating pressure

E.	comple	Verify that the information was given on the submitted data sheet is complete; and calculate the life expectancy of the pipelines corrosion protection ($^{\rm LE}_{\rm p/1}$)				
	I. Ge	eneral Information for Calculating LE _{p/1}				
	<u>1</u> a.	Type of corrosion protection (platform anodes, P/L anodes, or rectifier				
	b.	If pipeline anodes are used:				
1. Type of anode ENC.		1. Type of anode ZWC.				
		2. Spacing interval, ft. 500				
		3. Weight of unit anode, 1bs. Z19.				
	II. Ca	lculate Life Expectancy of Corrosion Protection				
7	<u>//1</u> a.	If platform anodes are used, annual pipe-to-electrolyte potential measurements are required.				
b. If pipeline anodes are used:		If pipeline anodes are used:				
	$LE_{p/1} = 3.82 \times 10^4 \times W^0/DIR? = 40 \text{ g/s}.$					
	W ^O = weight of one anode, pounds =					
	D = outside diameter of pipe, inches					
<pre>I = interval = length of pipe, feet : total number of anodes R = comsumption rate, lbs./amp-yr.</pre>		I = interval = length of pipe, feet : total number of anodes				
		R = comsumption rate, 1bs./amp-yr.				
c. Is our calculated $LE_{p/1} \ge 20$ years.		Is our calculated $LE_{p/1} \ge 20$ years.				
		If not, one of the following is necessary:				
		1. The company agrees to increase their cathodic protection to meet the 20-year requirement.				
		2. Annual pipe-to-electrolyte potential measurements will be required.				

and	cal	culate the specific gravity on the pipeline $(SP_{p/1})$	
I.	Gen	eral Information pertaining to SG _{p/1} 22 mils Epoky	oL
	a.	Description of pipelines protective coating 6/32 ename/	
	b.	Description of risers protective coating	
	c.	Description of pre-concrete coating	
	d.	Density of concrete, lbs./cu. ft. 140.	
	e.	Thickness of concrete, inches $2\frac{1}{2}$	
	f.	Thickness of asphalt/somastic 6/3Z	
	g.	Gravity or density of products:	
		For gas 0.60 (air = 1.0)	
		For oil/condensateO API;(water = 1	1.0
	h.	Given SG 1.35	

F. Verify that the information given on the submitted data sheet is complete;

